

Permit #: WV1017021

Doc Type 1: Renewal

Doc Type 2: 2007-08-07

Doc Type 3:

RECEIVED Mingo Logan Coal Company

Quarters / NPDES

7 Players Club Drive
Charleston, WV 25311

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Logan DMR
SEP 17 2006

MR-5 Reissuance Application

WV1017021 NPR 2

Host Art. 3 Permit S-5013-97

ENTER

Prepared By

Decota Consulting Company, Inc. Original



DEPARTMENT OF THE ARMY
HUNTINGTON DISTRICT, CORPS OF ENGINEERS
502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701-2070

January 22, 2007

REPLY TO
ATTENTION OF:

Operations and Readiness Division
Regulatory Branch
199800436-3 (Section 10: Coal River)

Mr. John McDaniel
Arch Coal, Inc.
7 Players Club Drive
Charleston, West Virginia 25311

*File
Hobet Mining
WV 1017021*

Dear Mr. McDaniel:

Enclosed in duplicate is the Department of the Army (DA) Clean Water Act Section 404 permit authorizing you to place dredged and fill material into approximately 8.11 acres of waters of the U.S., including 0.12 acre of emergent wetland, 10,630 linear feet (1.83 acres) of ephemeral stream channels, and 28,698 linear feet (6.126 acres) of intermittent stream channels, and 165 linear feet (0.034 acre) of perennial stream channel, in conjunction with the construction, operation, and reclamation of the Spruce No. 1 Mine [Surface Mining Control and Reclamation Act (SMCRA) Permit S-5013-97, Incidental Boundary Revision 2]. Post-project stream restoration and compensatory mitigation efforts will also involve activities within waters of the U.S. as described below. The proposed project would be located in the East District of Logan County, West Virginia at Latitude 38°52'39" and Longitude 81°47'52" depicted on the United States Geological Survey 7.5-minute Clothier and Amberstdale Quadrangles. The mine site is located approximately two miles northeast of Blair, in Logan County, West Virginia. Public Notice Number 199800436-3, issued by my office on October 12, 2005, advertised the proposed project. Please include this public notice number in all future correspondence concerning this project.

Restoration and/or enhancement efforts will be performed on-site in the 6,307 linear feet (1.0430 acres) of intermittent stream channels and 825 linear feet (0.19 acre) of perennial stream temporarily affected by sediment control, erosion protection zones, and the office and warehouse area, and off-site in 8,772 linear feet (11.31 acres) of Spruce Fork and 2,500 linear feet (3.27 acres) of Rockhouse Creek. In addition, mitigation will include creation of approximately 43,565 linear feet (9.8810 acres) of low-gradient intermittent (22,027 linear feet/5.17 acres) and ephemeral (21,538 linear feet/4.71 acres) stream channel on-site and off-site development of approximately 26,625 linear feet (0.61 acre) of high-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) stream channels in areas currently characterized as non-jurisdictional.

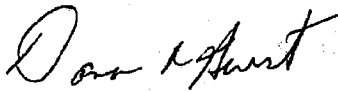
Upon acceptance of the terms and conditions of the enclosed DA permit, you must sign and date both copies on Page 3 and return one of the red-lined copies of the permit within 30 days from the date of this letter. A fee of \$100.00 required for this permit must be returned to the District Engineer with the permit copy. Check or money order should be made payable to Finance and Accounting Office, USAED-Huntington.

Also enclosed is a form titled "Notification of Administrative Appeal Options and Process and Request for Appeal." You are hereby advised the following option is available to you in your evaluation of the enclosed DA Individual Permit. You may accept the Individual Permit or you may decline to accept the Individual Permit because you object to certain terms and conditions therein. If you decline this Individual Permit, you may request the Individual Permit be modified according to your objections. Your signature on the DA permit means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

If any changes in the location and plans of the work are found necessary, revised plans must be submitted to this office for approval, as required by law, before the work is begun. Enclosed is a copy of the permit to be kept at the site during construction. It is recommended that you supply a copy of the permit to your project engineer responsible for the construction. Upon completion of the work and associated compensatory mitigation, the attached certification must be signed and returned to this office.

Further, it is our understanding that the U.S. Environmental Protection Agency's (USEPA) Conflict Prevention and Resolution Center will be providing neutral assessment services to facilitate the development of a cumulative impact assessment and restoration plan for the Little Coal River. We look forward to working with you, the USEPA and others in completing this collaborative effort. We are hopeful that this important endeavor will result in meaningful restoration and mitigation opportunities directed to mountaintop mining. If you have any questions, please contact Mrs. Teresa Spagna of the South Regulatory Section at 304-399-5710.

Sincerely,



Dana R. Hurst
Colonel, Corps of Engineers
District Engineer

Enclosures

Copies Furnished: (NEXT PAGE)

Copies Furnished:

Mr. Ken Politan
West Virginia Department of Environmental Protection
601 57th Street
Charleston, West Virginia 25304
With enclosures

Mr. Thomas Chapman
United States Fish and Wildlife Service
694 Beverly Pike
Elkins, West Virginia 26241
With enclosures

Mr. David Rider
U. S. Environmental Protection Agency
Environmental Programs Branch
1659 Arch Street (3ES30)
Philadelphia, Pennsylvania 16103-2029
With enclosures

Ms. Susan Pierce
West Virginia Division of Culture and History
1900 Kanawha Boulevard
Charleston, West Virginia 25605-0300
With enclosures

Mr. Roger Anderson
West Virginia Division of Natural Resources
Post Office Box 67
Elkins, West Virginia 26241
With enclosures

Mr. Terry Sammons
Sammons Law Offices, PLLC
Post Office Box 1747
Gilbert, West Virginia 25621
With Enclosures

DEPARTMENT OF THE ARMY PERMIT

Permittee Mingo Logan Coal Company

Permit No. 199800436-3 (Section 10: Coal River)

Issuing Office Huntington District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: You are authorized to place dredged and fill material into approximately 8.11 acres of waters of the U.S., including 0.12 acre of emergent wetland, 10,630 linear feet (1.83 acres) of ephemeral stream channels, and 28,698 linear feet (6.126 acres) of intermittent stream channels, and 165 linear feet (0.034 acre) of perennial stream channel, in conjunction with the construction, operation, and reclamation of the Spruce No. 1 Mine [Surface Mining Control and Reclamation Act (SMCRA) Permit S-5013-97, Incidental Boundary Revision 2]. Construction of the proposed valley fills will result in the permanent placement of approximately 16,698 cubic yards of dredged and fill material into 24,023 linear feet of intermittent streams, 6,955 linear feet of ephemeral streams, and 0.12 acre of emergent wetlands. Removal of bituminous coal reserves underlying stream beds will result in the discharge of 1,703 cubic yards of dredged and fill material into 2,161 linear feet of intermittent stream segments and 3,675 linear feet of ephemeral stream segments of the 1st unnamed right tributary of the Right Fork of Seng Camp Creek, Pigeonroost Branch and its 2nd unnamed left tributary, 4th unnamed right tributary, 1st unnamed left tributary of the 4th unnamed right tributary, 3rd unnamed right tributary, 1st unnamed left and right tributaries of the 3rd unnamed right tributary, Oldhouse Branch and its 1st unnamed left and right forks. Construction of the proposed drainage control structures and associated erosion protection zones will result in the temporary placement of approximately 576.6 cubic yards of dredged and fill material into 165 linear feet of perennial stream channel and 1,185 linear feet of intermittent stream channels. Lastly, the construction of the proposed office and warehouse area will result in the discharge of approximately 358 cubic yards of fill material into 1,329 linear feet of Pigeonroost Branch and its 1st unnamed left intermittent and 2nd unnamed right intermittent tributaries. Post-project stream restoration and compensatory mitigation efforts will also involve activities within waters of the U.S. Restoration and/or enhancement efforts will be performed on-site in the 6,307 linear feet (1.04 acres) of intermittent stream channels and 825 linear feet (0.19 acre) of perennial stream temporarily affected by sediment control, erosion protection zones, and the office and warehouse area, and off-site in 8,772 linear feet (11.31 acres) of Spruce Fork and 2,500 linear feet (3.27 acres) of Rockhouse Creek.

Project Location: The proposed project will be located in the East District of Logan County, West Virginia at Latitude 38°52'39" and Longitude 81°47'52" on the United States Geological Survey 7.5-minute Clothier and Amberstdale Quadrangles. The proposed project will result in disturbances to the Right Fork of Seng Camp Creek, Pigeonroost Branch, Oldhouse Branch and several of their unnamed tributaries. The streams on-site exhibit surface water connections to Spruce Fork of the Little Coal River, which ultimately flows into the Coal River, a navigable (Section 10) water of the U.S.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on December 31, 2031. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions: Special conditions are found on the attached sheet titled "SPECIAL CONDITIONS FOR THE PERMIT ISSUED TO MINGO LOGAN COAL COMPANY FOR THE CONSTRUCTION, OPERATION, AND RECLAMATION OF THE SPRUCE NO. 1 SURFACE MINE [SURFACE MINING CONTROL AND RECLAMATION ACT (SMCRA) PERMIT S-5013-97, INCIDENTAL BOUNDARY REVISION 2] ADMINISTRATIVE RECORD 199800436-3."

Further Information:

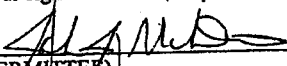
1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - () Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (x) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
2. Limits of this authorization:
 - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability: In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.
 - e. Damage claims associated with any future modification, suspension, or revocation of this permit.
4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
- a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

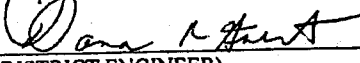
Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

 22/JAN/07
(PERMITTEE) (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

 22 JAN 2007
(DISTRICT ENGINEER) (DATE)

DANA R. HURST

Colonel, Corps of Engineers

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE) (DATE)

Table 1
Spruce No. 1 Mine
Summary of Activities in Waters of the United States
ADMINISTRATIVE RECORD: 199800436-3

Structure I.D.	Jurisdictional Volume of Fill (Cubic Yards)	Total Volume of Fill (Million Cubic Yards)
Valley Fill No. 1A	1245.84	11.82
Valley Fill No. 1B	169.44	1.53
Valley Fill No. 2A	5512.54	39.30
Valley Fill No. 2B	2952.36	13.85
Valley Fill No. 3	1154.17	3.43
Valley Fill No. 4	5663.60	40.07
Mine Through Area	1702.91	N/A
EPZ - Valley Fill Nos. 2A & B	293.86	N/A
Pond No. 2	38.67	N/A
Pond No. 2A	26.89	N/A
Office Area Fill	358.31	N/A
Pond No. 2B	44.44	N/A
Pond No. 2C	47.50	N/A
Pond No. 3	43.06	N/A
Pond No. 4	82.15	N/A

Table 2

Spruce No. 1 Mine

Summary of Permanent and Temporary Impacts to Streams

ADMINISTRATIVE RECORD: 199800436-3

Structure ID	Impact Area	Perennial Streams (feet/acres)	Intermittent Streams (feet/acres)	Ephemeral Streams (feet/acres)	Total Impacts (feet/acres)
Valley Fill No. 1A	1 st unnamed right tributary of Right Fork of Seng Camp Creek	0	1,950/0.4563	50/0.0103	2,000/0.4666
Mine Through Area	1 st unnamed right tributary of Right Fork of Seng Camp Creek	0	0	700/0.0907	700/0.0907
Valley Fill No. 1A	1 st unnamed right tributary of 1 st unnamed right tributary of Seng Camp Creek	0	700/0.0482	0	700/0.0482
Valley Fill No. 1B	2 nd unnamed right tributary of Right Fork of Seng Camp Creek	0	250/0.0264	500/0.0436	750/0.0700
Pond Nos. 2, 2A, 2B, 2C, Office Fill Area, and EPZ-2AB	Pigeonroost Branch – Segment 1	0	1,889/0.2403	0	1,889/0.2403
Valley Fill No. 2A	Pigeonroost Branch – Segment 1	0	183/0.0168	0	183/0.0168
Valley Fill No. 2A	Pigeonroost Branch – Segment 2	0	5,750/1.4506	0	5,750/1.4506
Mine Through Area	Pigeonroost Branch – Segment 2	0	350/0.0439	600/0.0298	950/0.0737
Office Fill Area	1 st unnamed left tributary of Pigeonroost Branch	0	225/0.0181	0	225/0.0181
EPZ-2AB	2 nd unnamed left tributary of Pigeonroost Branch	0	10/0.0011	0	10/0.0011
Mine Through Area	2 nd unnamed left tributary of Pigeonroost Branch	0	108/0.0141	0	108/0.0141
Valley Fill No. 2A	3 rd unnamed left tributary of Pigeonroost Branch	0	150/0.0164	0	150/0.0164
Valley Fill No. 2A	4 th unnamed left tributary of Pigeonroost Branch	0	50/0.0006	0	50/0.0006
Valley Fill No. 2A	4 th unnamed right tributary of Pigeonroost Branch	0	2,800/0.5831	0	2,800/0.5831
Mine Through Area	4 th unnamed right tributary of Pigeonroost Branch	0	25/0.0014	175/0.0057	200/0.0071
Valley Fill No. 2A	1 st unnamed left tributary of 4 th unnamed right tributary of Pigeonroost Branch	0	1,225/0.2105	0	1,225/0.2105
Mine Through Area	1 st unnamed left tributary of 4 th unnamed right tributary of Pigeonroost Branch	0	301/0.0563	0	301/0.0563
EPZ-2AB	3 rd unnamed right tributary of Pigeonroost Branch	0	250/0.0669	0	250/0.0669

Structure ID	Impact Area	Perennial Streams (feet/acres)	Intermittent Streams (feet/acres)	Ephemeral Streams (feet/acres)	Total Impacts (feet/acres)
Valley Fill No. 2B	3 rd unnamed right tributary of Pigeonroost Branch	0	4,500/1.0899	0	4,500/1.0899
Mine Through Area	3 rd unnamed right tributary of Pigeonroost Branch	0	1,377/0.1226	0	1,377/0.1226
Valley Fill No. 2B	1 st unnamed left tributary of 3 rd unnamed tributary of Pigeonroost Branch	0	50/0.0052	510/0.0635	560/0.0687
Mine Through Area	1 st unnamed left tributary of 3 rd unnamed tributary of Pigeonroost Branch	0	0	340/0.0305	340/0.0305
Valley Fill No. 2B	1 st unnamed right tributary of 3 rd unnamed tributary of Pigeonroost Branch	0	0	530/0.0615	530/0.0615
Mine Through Area	1 st unnamed right tributary of 3 rd unnamed tributary of Pigeonroost Branch	0	0	270/0.0320	270/0.0320
Office Fill Area	2 nd unnamed right tributary of Pigeonroost Branch	0	90/0.0083	0	90/0.0083
Pond No. 3	1 st unnamed right tributary of Pigeonroost Branch	0	75/0.0178	0	75/0.0138
Valley Fill No. 3	1 st unnamed right tributary of Pigeonroost Branch	0	1,860/0.4360	220/0.0410	2,080/0.4770
Pond No. 4	Oldhouse Branch – Main Stem	165/0.0339	0	0	165/0.0339
Valley Fill No. 4	Oldhouse Branch – Main Stem	0	3,690/1.0859	3,370/0.8134	7,060/1.8993
Mine Through Area	Oldhouse Branch – Main Stem	0	0	30/0.0028	30/0.0028
Valley Fill No. 4	1 st unnamed left tributary of Oldhouse Branch	0	400/0.0413	0	400/0.0413
Valley Fill No. 4	2 nd unnamed left tributary of Oldhouse Branch	0	0	400/0.0505	400/0.0505
Valley Fill No. 4	1 st unnamed left fork of Oldhouse Branch	0	0	140/0.0269	140/0.0269
Mine Through Area	1 st unnamed left fork of Oldhouse Branch	0	0	360/0.0489	360/0.0489
Mine Through Area	1 st unnamed right fork of Oldhouse Branch	0	0	1,200/0.2250	1,200/0.2250
Valley Fill No. 4	2 nd unnamed right tributary of Oldhouse Branch	0	65/0.0187	1,235/0.2544	1,300/0.2731
Valley Fill No. 4	1 st unnamed right tributary of Oldhouse Branch	0	400/0.0494	0	400/0.0494
	Total	165/0.0339	28,723/6.1261	10,630/1.8305	39,518/7.9905

**SPECIAL CONDITIONS FOR THE SECTION 404 CLEAN WATER ACT PERMIT ISSUED TO
MINGO LOGAN COAL COMPANY FOR THE CONSTRUCTION, OPERATION AND
RECLAMATION OF THE SPRUCE NO. 1 SURFACE MINE
[SURFACE MINING CONTROL AND RECLAMATION ACT (SMCRA) PERMIT S-5013-97,
INCIDENTAL BOUNDARY REVISION 2]
ADMINISTRATIVE RECORD 199800436-3**

1. The construction, operation and reclamation of Spruce No. 1 Mine [Surface Mining Control and Reclamation Act (SMCRA) Permit S-5013-97, Incidental Boundary Revision 2] shall be conducted in accordance with the attached drawings.
2. The water quality certification issued by the West Virginia Department of Environmental Protection dated December 19, 2005 is attached hereto and made a part of this permit. All conditions attached to or contained therein are hereby incorporated by reference as being special conditions of the USACE permit.
3. The permittee shall implement and abide by the Compensatory Mitigation Plan (CMP) entitled "Compensatory Mitigation Plan for the Permanent and Temporary Impacts to Waters of the United States Associated with the Mingo Logan Coal Company Spruce No. 1 Mine WVDEP Permit No. S-5013-97, IBR No. 2... November 2006." This CMP replaced the CMP (dated March 2006) made a part of the Final Environmental Impact Statement prepared for this proposed project. This plan includes the following elements: on-site creation of approximately 43,565 linear feet of low-gradient intermittent (22,027 linear feet/5.17 acres) and ephemeral (21,538 linear feet/4.71 acres) stream channels by modifying and enhancing post-reclamation surface channels that run along the perimeter of the mined and reclaimed area; off-site development of 26,625 linear feet of high-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) stream channels (these are the areas where the surface water flows from the created channels would be directed to provide a hydrological connection to a surface tributary system of navigable waters); on-site restoration of 6,307 linear feet of ephemeral and intermittent stream channels and 825 feet of perennial stream channel; off-site enhancement of 8,772 linear feet of Spruce Fork; off-site rehabilitation and enhancement 2,500 linear feet of Rockhouse Creek; on-site creation 0.48 acre of emergent wetlands; and, preservation in perpetuity through execution of a deed restriction of all above referenced mitigation areas, including all riparian buffers. A 50-foot vegetative riparian zone, consisting of native herbaceous, shrub and tree species, will be established along the created, enhanced, and restored stream channels as well as the created emergent wetland. The permittee shall implement the mitigation work plan and complete the initial construction and plantings in accordance with the timeframes specified in the above referenced CMP. Completion of all elements of this CMP is a requirement of this permit.
4. The on- and off-site mitigation sites will be protected via a protective real estate instrument. The permittee shall dedicate in perpetuity by the appropriate real estate instrument as aquatic resource mitigation, 6,307 linear feet of restored ephemeral and intermittent stream channels and 825 linear feet of restored perennial stream channels, 8,772 linear feet of enhanced perennial channel in Spruce Fork, 2,500 linear feet of rehabilitated and enhanced intermittent channel in Rockhouse Creek, 0.48 acre of created emergent wetlands, 43,565 linear feet of created low-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) streams, and 26,625 linear feet of high-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) stream channels, and all riparian and buffer zones associated with each of these aquatic resource mitigation sites. The mitigation areas shall not be disturbed, except by those activities that would not adversely affect the intended extent, condition, and function of the mitigation areas. Unless otherwise specified, livestock grazing, mowing and similar activities are not allowed. The permittee shall survey the mitigation area, develop appropriate restrictive instruments for the surveyed areas, submit the appropriated real estate instrument to the USACE for review and approval, and record the USACE approved real estate instrument with the Logan County Clerk. The protective real estate instrument must stipulate that the mitigation areas shall be properly

marked and shall not be disturbed, except by those activities that will not adversely affect the intended extent, condition, and function of the mitigation areas. Unless otherwise specified, livestock grazing, mowing and similar activities are not allowed. The instrument must also include a map depicting the boundary of the preservation site. The permittee shall provide a copy of the recorded instrument for the mitigation areas within 60 days from the date of the permit. The restriction shall not be removed from the deed or modified without written approval of the USACE and conveyance of any interest in the property must be subject to the recorded instrument.

5. The permittee's responsibility to complete the required compensatory mitigation as set forth in Special Condition 3 will not be considered fulfilled until they have provided documentation supporting mitigation success and have received written verification from the U.S. Army Corps of Engineers that areas within the mitigation area intended to become:

- a. waters of the United States meet the definition of waters of the United States under the Regulatory Program regulations applicable on the date of this permit;
- b. waters of the United States are functioning as the intended type of waters of the United States and at the level of ecological performance prescribed in the mitigation plan referenced in Special Condition 3 above; and,
- c. buffer and riparian zones and other areas integral to the enhancement of the aquatic ecosystem are functioning as the intended type of ecosystem component and at the level of ecological performance prescribed in the mitigation plan referenced in Special Condition 3 above.

6. The final compensatory mitigation plan must ensure the created, restored, developed, and enhanced stream segments provide sufficient habitat for the aquatic environment. A habitat assessment must be performed to determine the habitat scoring of each mitigation project sites, as indicated in the mitigation plan referenced in Special Condition 3 above. If the mitigation efforts do not meet this performance standard, efforts indicated by the applicant's Contingency Plan or other corrective measures will be required.

7. Upon reclamation of the site, the affected stream channels will be restored to their approximate original contours. The contours of the restored stream channel must be based on actual pre-construction cross-sections or reference reach. If the mitigation efforts do not meet this performance standard, efforts indicated by the applicant's Contingency Plan or other corrective measures will be required.

8. The permittee shall install appropriate bank protection measures, such as rock riprap, revegetation, other acceptable clean non-contaminated material or native grasses and forbs, in channel or barren areas requiring erosion control.

9. The permittee must use natural stream channel design techniques and concepts to determine the appropriate hydrogeomorphic configuration of the reconstructed/restored, established, and enhanced stream channels. The permittee shall incorporate in-stream enhancement measures, such as riffle/pool complexes, eddy rocks, aquatic habitat structures, and meanders within the reconstructed/restored and established stream channels to provide habitat for future aquatic diversity. All restored/reconstructed, established, and enhanced stream channels must be designed in a manner that will not eliminate partial canopy closure over these channels. The use of grout is prohibited to prevent the loss of hydrology in the restored and established ephemeral stream channels. The permittee shall notify the USACE to discuss other alternative methods.

10. A minimum of a 50-foot vegetated buffer zone (25 feet on each stream side), consisting of native riparian grasses, shrub, and tree species, will be planted along 7,132 linear feet of restored perennial and

intermittent streams, 8,772 linear feet of enhanced Spruce Fork, 2,500 linear feet of rehabilitated and enhanced Rockhouse Creek, 43,565 linear feet of created intermittent (11,330 linear feet/0.26ac) and ephemeral (15,295 linear feet/0.35 ac) streams, and 0.48 acre of emergent wetlands. The native plantings must consist of a minimum of 70% woody tree stems and no more than 25% these trees should be soft mast producers (i.e. ash, maple, sycamore and etc.). Woody stems should be irregularly placed along the corridor and low growing shrubs should be planted between trees. All trees and shrubs must be selected based upon their hydrologic and edaphic tolerances, wildlife food and cover value and should be native to the project area. The riparian or buffer zone must have a cumulative succession rate of at least 400 stems (tree and shrub stems) three years after planting, as well as, throughout the monitoring period. The use of chicken wire, hardware cloth, repellants, or other materials may be necessary to achieve succession requirements in areas with a beaver population.

a. Invasive plant species are prohibited from use in the 50 foot riparian buffer zones along 7,132 linear feet of restored perennial and intermittent streams, 8,772 linear feet of enhanced Spruce Fork, 2,500 linear feet of rehabilitated and enhanced Rockhouse Creek, 43,565 linear feet of created intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) streams, and 0.48 acre of emergent wetlands. Invasive species reproduce rapidly, forming stands that exclude nearly all other plant species. In the worst cases, they radically alter the ecosystem processes, alter natural areas, and displace native species. **The permittee must submit to the USACE a detailed revegetation plan, consisting only of native, non-invasive species, within 60 days of this Department of the Army permit.** The planting plan must incorporate a minimum of 400 trees and 100 shrubs per acre, with an 80% survival rate after 5 years. Woody stems (400 per acre) shall be irregularly placed along the corridor and low growing shrubs (100 per acre) should be planted between trees. All trees and shrubs shall be selected based upon their hydrologic and edaphic tolerances, wildlife food and cover value and shall be native to the project area. At least 5 herbaceous species, 4 shrub species, and 5 tree species shall be used along each of the 50-foot mitigation riparian buffer zones.

b. Preventative measures will be taken to inhibit invasive species from establishing in the vegetated buffer zones along the mitigation areas. Upon discovery of invasive species, the permittee shall coordinate removal efforts with the USACE to determine appropriate eradication techniques. Invasive species reproduce rapidly, forming stands that exclude nearly all other plant species. In the worst cases, they radically alter the ecosystem processes, alter natural areas, and displace native species. On February 3, 1999, Executive Order 13112 was issued to discourage the introduction of invasive species and provide for their control to minimize the economic, ecological, and human health impacts that invasive species cause.

11. As-built channel surveys will be conducted to document the dimension, pattern, and profile of the along 6,307 linear feet of restored intermittent stream channels, 825 linear feet of restored perennial stream channel, 8,772 linear feet of enhanced Spruce Fork, 2,500 linear feet of rehabilitated and enhanced Rockhouse Creek, 43,565 linear feet of created intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) streams, and 26,625 linear feet of developed high-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) stream channels. Permanent cross-sections will be established during this survey for use during future monitoring surveys. At a minimum, two permanent cross-sections will be established in each mitigation area. The locations will be selected to represent approximately 50 percent of the riffle habitat and 50 percent of the pool areas. The as-built surveys will include photographic documentation at cross-sections and structures, a plan view diagram, vegetation information, and a pebble count for at least three cross-sections per reach.

12. Within 6 weeks of completion of mitigation construction (i.e. site preparation and planting), a report

must be submitted to the USACE describing the as-built status of the mitigation project(s). Topographic maps must be submitted showing as-built contours of the mitigation streams. The location of plantings and other installations or structures shall be indicated. Additionally, the USEPA Rapid Bioassessment Protocol and West Virginia Stream Condition Index must be performed.

13. Physical habitat and benthic communities will be assessed in the created, enhanced, and restored mitigation stream segments using EPA Rapid bioassessment protocols for use in streams and wadeable rivers (EPA 841-B-99-002), WVDNR's "Standard Conditions for Environmental Assessments in Wadeable Streams" and USEPA's alternative West Virginia Stream Condition Index (WV-SCI) rating system described in the "A Survey of the Condition of Streams in the Primary Region of Mountain Top Removal/ Valley Fill Coal Mining – March 1999, U.S. EPA, Region III)." The WVSCI and Rapid Bioassessment Protocol scores will be compared to pre-mining or baseline conditions or reference reaches. The scores, when sampling is conducted during similar seasons, should either be equal to, or greater than, pre-mining disturbances indicating stream channels are functioning as the intended type of waters of the United States prescribed in the mitigation plan and at the level of ecological performance determined by the USACE with input from other Federal and state resource agencies.

14. Water chemistry and physiochemical parameters will be collected at each of the created, enhanced, and restored mitigation stream segments in accordance with the USEPA (2000) "Interim Chemical/Biological Monitoring Protocols for Coal Mining Permit Applications."

15. All mitigation sites must be monitored for a minimum of 10 years, annually, following completion of the applicant's proposed compensatory mitigation efforts. The District Engineer may extend the monitoring past the minimum 10 years based upon a determination that performance standards have not been met or the compensatory mitigation project(s) is not on track to meet them (e.g. high mortality rate of vegetation). The District Engineer may also revise the monitoring requirements when remediation is required. The mitigation sites may require monitoring more often than annually during the early stages of development to quickly address problems and/or concerns associated with the mitigation site.

Monitoring reports must be submitted to and received in this office by December 31 of each year following the first full year of completion of restoration and creation activities. The first report must contain as-built drawings of all mitigation areas. All reports must provide a status of the created, enhanced and restored stream segments, including photographs and narrative descriptions of channel development. Completed USEPA Rapid Bioassessment Protocol forms, Bank Erosion Hazard Index forms and USEPA Environmental Monitoring and Applications Programs Visual Riparian Estimate forms, benthic macroinvertebrate data, and physical and chemical water quality data and any additional approved functional assessment data pertinent to evaluating the success of the proposed mitigation for permanent impacts must be submitted with each annual monitoring report for a minimum period of 10 years. In order to provide a comparison of stream and wetland development throughout the years of required monitoring, it would be helpful to provide these scores with each submitted monitoring report.

a. To ensure coordination with resource agencies one original and five copies of the monitoring report should be submitted for review. Failure to submit monitoring reports constitutes permit non-compliance.

b. Annual monitoring reports must include details sufficient for an inspector to determine compliance with performance standards and to identify any required remedial actions. At a minimum, the following information is required:

- i. Corps Permit Number
- ii. Name and contact information of permittee and consultant
- iii. Name of party responsible for conducting the monitoring and the date(s) the inspection was conducted.

- iv. A restatement of the compensation site plan goals, objectives and performance standards (i.e. A summary paragraph defining the purpose of the approved project, acreage and linear feet and type of aquatic resources impacted, and mitigation acreage and linear feet and type of aquatic resources authorized to compensate for the aquatic resource impacts.)
- v. Written description on the location and any identifiable landmarks of the compensatory mitigation project including information to locate the site perimeter(s).
- vi. Directions to the mitigation site(s).
- vii. Dates the compensatory mitigation commenced and/or was completed.
- viii. A description of monitoring methods must be provided. If using sampling methods, include sample size, statistical justification for sampling regime and data analyses performed. If appropriate, include assessment of natural population growth by target species.
- ix. Identify of any structural failures or external disturbances on the site, and describe any management activities and/or corrective measures that were implemented during the previous year. A description of all differences between the approved mitigation plan and the as-built mitigation site and rationale for variance from the approved mitigation plan.
- x. List the monitoring requirements and performance standards, as specified in the approved compensatory mitigation plan and special conditions of the DA permit, and evaluate whether the compensatory mitigation sites are successfully achieving the approved performance standards or trending toward success. A table is one option for comparing the performance standards to the conditions and status of the developing mitigation sites.
- xi. Summary data must be provided to substantiate the success and/or potential challenges associated with the compensatory mitigation projects. Photo documentation (displayed on 8 1/2" x 11" paper, dated, and clearly labeled with the direction from which the photo was taken) may be provided to support the findings and recommendation referenced in the monitoring report and to assist the Corps project manager in assessing whether the compensatory mitigation project is successful for the monitoring period. A site map must be provided showing the mitigation site perimeter, location of data collection and photo documentation.
- xii. A description of the conditions of the compensatory mitigation sites and an assessment of the presence and level of occurrence of invasive species and the degree to which performance standards are being met must be included. A description of the status of all erosion control measures on the compensation site(s) and a discussion of their functioning status and details on the need for their continued use.
- xiii. If performance standards are not being met, a brief explanation of the difficulties and potential remedial actions proposed by the permittee, including a timetable, must be provided. The District Engineer will ultimately determine if the mitigation site is successful for a given monitoring period.
- xiv. Monitoring reports are required even if no work is conducted during the reporting period.

16. The permittee is reminded that remedial measures are necessary to achieve or maintain achievement of the success criteria and otherwise improve the extent to which the mitigation site(s) replace the functions and values lost due to project impacts.

17. If an annual performance criterion is not met for all or any portion of the stream mitigation projects in any year, or if the final success criteria are not met, the permittee shall prepare an analysis of the cause(s) of failure and, if determined necessary by the USACE, propose remedial actions for approval.

18. The permittee will arrange an on-site meeting with the USACE during the growing season after the first, third, fifth, seventh, ninth, and tenth year reports are submitted. The purpose of the meeting is to determine if the stream mitigation sites have been constructed in accordance with the approved mitigation plan referenced in Special Condition 3 above and are functioning as expected. If it is determined the mitigation is not developing as expected after the submittal of the third year report, a contingency plan must be provided to this office that details the measures taken to allow the streams to reach their proposed functional status. A current jurisdictional delineation of all waters of the United States on the site may also be required for review. Problems, if any, of the mitigation areas shall be addressed and potential solutions must be incorporated into actions the permittee would take to allow the mitigation waters to reach their proposed functional status or provide additional approved mitigation. The permittee is responsible for implementing reasonable corrective measures recommended by the USACE.

19. Following submittal of the tenth year monitoring report, a determination of the stream and wetland success will be made by the USACE. The following performance standards must be achieved in regards to stream and wetland mitigation before the permittee may be released from further monitoring requirements:

- a. Work must have taken place in accordance with the submitted plans.
- b. The stream mitigation work must be constructed in a manner that provides stable stream channels with in-stream structures to provide sufficient stability and aquatic habitat for future aquatic diversity.
- c. At a minimum, the criteria on the attached table must be met for stream mitigation to be determined successful.
- d. A minimum of 0.48-acre of emergent wetlands exhibiting all three wetland parameters (i.e. hydric soils, hydrology and hydrophytic wetland plants) must be present as depicted on the drawing entitled "Wetland Mitigation Design Exhibit No. 16" and exhibit a surface water connection to a surface tributary system.
- e. A total of 43,565 linear feet of created low-gradient ephemeral and intermittent streams and 50.0 acres of riparian zone must exhibit surface water connections via 26,625 linear feet of created high-gradient ephemeral and intermittent stream channels which would then drain into existing surface tributary systems as depicted on Exhibit 4 of the CMP.
- f. Water must flow above ground when present in the stream channel.
- g. A minimal 85% of the primary channel bottom in the proposed mitigation channels will be free of sediment.
- h. At least 80 percent aerial cover of established shrub, tree and herbaceous species must be present in each of the vegetation strata.
- i. The permittee has agreed to monitor for the presence of invasive species within the boundaries of the mitigation site, which includes the riparian stream corridor and associated upland buffers. Invasive species reproduce rapidly, forming stands that exclude nearly all other plant species. In the worst cases, they radically alter the ecosystem processes, alter natural areas, and displace native species. Should the presence of any of these species be documented at any time during monitoring procedures, you should contact this office to discuss appropriate measures needed to control and eradicate these species.
- j. All mitigation streams must be protected by a minimum 50-foot wide vegetated upland buffer, where practicable.

If required performance has not been met, the monitoring period may be extended and the permittee may be required to revise the existing mitigation site or identify new potential mitigation area(s).

20. The final detailed engineering plans, including a planting plan (consisting of species that are non-invasive and native to Logan County, West Virginia), must be submitted for the restored 6,307 linear feet of intermittent stream channel and 825 linear feet of perennial stream channel, 8,772 linear feet of enhanced Spruce Fork, 2,500 linear feet of rehabilitated and enhanced Rockhouse Creek, 0.48 acre of created emergent wetlands, 43,565 linear feet of created low-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) streams, and 26,625 linear feet of developed high-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) stream channels, and all riparian and buffer zones (total of 93.4 acres) associated with each of these aquatic resource mitigation sites. Planting requirements are under Special Condition 10. All cross-section views of streams proposed to be restored, enhanced, created, and established must be superimposed on cross-sections of existing streams or other appropriate reference reaches. These cross-sections must reflect existing and proposed conditions taken at appropriate intervals and must not be presented as "typical cross-sections." The permittee must submit the plans to this office within 120 days of the date of this authorization. Five copies of the plans should be submitted to expedite agency coordination.

21. It is the permittee's responsibility to ensure: permission is received from all landowners; the work is performed in compliance with the Department of the Army permit special conditions; perpetual protection is provided to the U.S. Army Corps of Engineers; and, long-term monitoring and maintenance is performed.

22. An interagency team, including members from the U.S. Army Corps of Engineers, the U.S. Environmental Protection Agency (USEPA), the U.S. Fish and Wildlife Service, the West Virginia Department of Environmental Protection, and the West Virginia Division of Natural Resources has been assembled to address the needs for a headwater stream assessment procedure for the State of West Virginia. The team is considering a variety of methods that have been developed to assess stream quality. Efforts are also underway by the USEPA to facilitate the development of a functional assessment protocol to measure ecosystem functions of headwater streams and assess functional impacts that result from valley filling activities in the Appalachian Coal Region of West Virginia using established protocols. USEPA proposes to develop a functional stream assessment that can be used by regulators and to justify the use of structural measures in assessing functions of waters. USEPA has proposed to develop and assess rapid techniques to measure functional properties (i.e. organic matter decomposition rates; nutrient transport and uptake; primary production and metabolism; secondary production; and organic matter retention and transport) and to assess the relationships between functional and structural measures. Upon finalizing these stream assessment protocols, the permittee shall use these tools to assess the success of the proposed mitigation sites. The biological, chemical, and physical data collected during the annual monitoring events and required under Special Conditions 13 and 14 of this Department of the Army Permit will be used in these proposed protocols.

23. Construction activities will be performed during low flow conditions. All disturbed areas shall be seeded and mulched to minimize erosion.

24. In-stream filling activities are prohibited during the fish spawning season (April through June) unless a waiver is granted by the West Virginia Department of Environmental Protection.

25. Best management practices (BMPs), including but not limited to utilization of silt fences, straw bales, check dams, limiting vegetation removal and bank shaping to the maximum extent practicable, mulching and seeding, and the prohibition of the use or storage of toxic or hazardous materials within the construction areas, must be implemented during construction activities.

26. No construction activities may begin within the proposed off-site mitigation area of Spruce Fork until you received written notification from this office stating Section 106 of the National Historic Preservation Act (NHPA) has been fulfilled. This authorization for the proposed off-site mitigation activities in Spruce Fork is not valid until the provisions of the NHPA have been satisfied. Attached is a copy the West Virginia Division of Cultural and History correspondence dated December 14, 2006 regarding the proposed compensatory mitigation plan.

27. Sites 46LG123 and 46LG 131-133 must be avoided with a 100-foot buffer zone. The boundaries of these sites must be marked with appropriate fencing or other protective means. In the event any previously unknown historic or archaeological sites or human remains are uncovered while accomplishing the activity authorized by this permit, you must cease all work immediately and contact local, state and county law enforcement offices (*only contact law enforcement on findings of human remains*), our office at (304) 399-5710, the West Virginia Division of Culture and History at (304) 558-0220, Ziiibiwing Center of Anishinabe Culture and Lifeways The Saginaw Chippewa Indian Tribe at 800-225-8172 Extension 54750, the Delaware Nation NAGPRA Office at 405-247-2448, the Delaware Tribe of Indians at 918-336-5272, the Prairie Band Potawatomi Nation at 785-966-4007, Eastern Shawnee Tribe of Oklahoma at 918-666-2435, Wyandotte Nation, Keweenaw Bay Indian Community at 906-353-6623, Little Traverse Bay Bands of Odawa Indians at 231-242-1451. In accordance with a voluntary agreement established between the U.S. Army Corps of Engineers and Native American Tribes, consultation pursuant to the Native Americans Grave Protection and Repatriation Act will be performed in all cases involving the discovery of human remains.

28. The proposed project is not likely to adversely affect threatened or endangered species or their critical habitat. The May 2004 bat-mist net survey will remain valid until May 15, 2007 unless otherwise modified by the U.S. Fish and Wildlife Service-West Virginia Field Office.

a. Section 7 obligations under Endangered Species Act must be reconsidered if new information reveals impacts of the proposed project that may affected federally listed species or critical habitat in a manner not previously considered, the proposed project is subsequently modified to include activities which were not considered during Section 7 consultation with the USFWS, or new species are listed or critical habitat designated that might be affected by your proposed project.

b. The permittee is reminded this Department of the Army Permit authorization does not authorize the "take" of a threatened or endangered species as defined under the Endangered Species Act. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the USFWS, both lethal and non-lethal "takes" of protected species are in violation of the ESA. Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the USFWS or their World Wide Web page at <http://www.fws.gov/r9endspp/endspp.html>.

29. The permittee must display a copy of the approved Department of the Army permit at the site and ensure all contractors are aware of its terms and conditions.

30. As-built drawings, certified by a professional engineer, shall be furnished to this office within 60 days of completion of construction showing the location and configuration, as well as all pertinent dimensions and elevations of each valley fill, sediment pond, and mined through area as well as the office area and erosion protection zones.

30. The permittee is required to apply for and secure all necessary permits or other approvals from state or local regulatory agencies prior to commencing construction activity. _____

Stream Segment ID	Stream Segment Location	Perennial Streams (feet/acres)	Intermittent Streams (feet/acres)	Ephemeral Streams (feet/acres)	Total Stream (feet/acres)	Riparian Zone (Acres)	Rapid Bioassessment Score
Restoration of Temporary Impacts							
Pond Nos. 2, 2A, 2B, 2C and EPZ-2AB	Pigeonroost Branch – Segment I	0	5,287/0.8422	0	5,287/0.8422	6.1	138-141
Office Fill Area	1 st unnamed left tributary of Pigeonroost Branch	0	225/0.0181	0	225/0.0181	0.26	138-141
EPZ-2AB	2 nd unnamed left tributary of Pigeonroost Branch	0	100/0.0109	0	100/0.0109	0.11	138-141
EPZ-2AB	3 rd unnamed right tributary of Pigeonroost Branch	0	250/0.0669	0	250/0.0669	0.29	138-141
Office Fill Area	2 nd unnamed tributary of Pigeonroost Branch	0	90/0.0083	0	90/0.0083	0.10	138-141
Pond No. 3	1 st unnamed right tributary of Pigeonroost Branch	0	355/0.0931	0	355/0.0931	0.41	132-135
Pond No. 4	Oldhouse Branch – Main Stem	825/0.1887	0	0	825/0.1887	0.09	147-153
TOTAL					7,132/1.2282	7.36	
Rehabilitation and/or Enhancement							
--	Spruce Fork	8,722/11.31	0	0	8,772/11.31	10.0	134-143
--	Rockhouse Branch	0	2,500/3.27	0	2,500/3.27	2.87	110-120
TOTAL					11,272/14.58	12.87	
Created/Restored Ephemeral and Intermittent Streams within Project Boundary							
--	Project Area	0	22,027/5.1667	21,538/4.7133	43,565/9.8800	50.0	110-120
TOTAL					43,565/9.880	50.0	
Development of High Gradient Ephemeral and Intermittent Stream Channels							
--	--	0	11,330/0.2601	15,295/0.3511	26,625/0.6112	30.6	110-120
TOTAL					26,625/0.6112	30.6	
CUMULATIVE TOTAL					88,594/26.2994	93.4	



west virginia department of environmental protection

Executive Office
601 57th Street, S.E.
Charleston, WV 25304
Telephone Number: (304) 926-0440
Fax Number: (304) 926-0446

Bob Wise, Governor
Stephanie R. Timmermeyer, Cabinet Secretary
www.wvdep.org

December 19, 2005

Ginger Mullins, Chief
Operations and Readiness Division
U. S. Army Corps of Engineers
Huntington District
502 Eighth Street
Huntington, West Virginia 25701-2070

RE: Hobet Mining, Inc.
Spruce No. 1 Mine
Permit No. S-5013-97, IBR No. 2
NPDES Permit No. WV1017021, Modification No. 2
404 Public Notice No. 199800436-3

Dear Ms. Mullins:

The West Virginia Department of Environmental Protection ("DEP") has received the above notice of proposed permitting action by the U. S. Army Corps of Engineers ("COE") relating to an individual permit application for Hobet Mining, Inc. ("Hobet"). The applicant proposes the placement of fill material into waters of the U. S. in conjunction with construction, operation and reclamation of the Spruce No. 1 Surface Mine. This site is located approximately 2 miles northeast of Blair in Logan County, West Virginia.

The Spruce No. 1 Mine, as currently approved under IBR No.2 to S-5013-97, will affect approximately 2,278 surface acres, which includes 1,770 acres of mineral extraction area. Approximately 501 million cubic yards of overburden must be excavated to recover nearly 40.91 million tons of coal reserves from the 6-Block, 5-Block, Stockton, and Coalburg (Upper and Middle) seams, as well as all associated splits thereof. Approximately 110 million cubic yards of the generated overburden will be considered and designed for placement in six valley fills. The construction of Valley Fill Nos. 1A, 1B, 2A, 2B, 3, and 4 would result in the permanent impact 24,023 linear feet of intermittent stream, 7,655 linear feet of ephemeral streams, and 0.12 acre of emergent wetlands. The removal of the bituminous coal reserves underlying stream beds would permanently impact 2,161 linear feet of intermittent stream and 2,945 linear feet of ephemeral streams. Prior to construction of these valley fills, drainage control would be provided with the

Promoting a healthy environment.

construction of six temporary sediment ponds downstream of the proposed fills and one erosion protection zone. Construction of Sediment Ponds 2, 2A, 2B, 2C, 3, and 4 and erosion protection zone would result in temporary impact of 825 linear feet of perennial streams, 5,642 linear feet of intermittent streams, and 30 linear feet of ephemeral streams. Lastly, the construction of the proposed office and maintenance area would result in the impact of 315 linear feet of the intermittent streams.

To assess and evaluate less degrading alternatives and minimize impacts to waters of the United States, the following analysis, reviews, documents and assessments were considered:

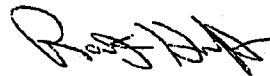
- The 404(b)(1) analysis completed in conjunction with a Buffer Zone Finding for Incidental Boundary Revision (IBR) No. 2 to S-5013-97.
- The Cumulative Hydrologic Impact Assessment (CHIA) for S-5013-97 and IBR No.2
- The Article 3 SMA and issuance of S-5013-97 and updated per IBR No.2 to S-5013-97.
- West Virginia's Water Quality Standards, 46 C.S.R. 1-4, and 60 C.S.R. 5 (anti-degradation policy and implementation rules).
- The State 401 Certification application for the Spruce No. 1 Mine (IBR No. 2).
- The Mitigation and Compensation Agreement dated December 12, 2005 for the temporary and permanent stream impacts resulting from the construction of Valley Fill No. 1A in the 1st unnamed right tributary of Right Fork of Seng Camp Creek, 1st unnamed right tributary of 1st unnamed right tributary of Seng Camp Creek; Valley Fill No. 1B in the 2nd unnamed right tributary of Right Fork of Seng Camp Creek; Valley Fill No. 2A in Pigeonroost Branch, 3rd unnamed left tributary of Pigeonroost Branch, 4th unnamed left tributary of Pigeonroost Branch, 1st unnamed left tributary of 4th unnamed right tributary of Pigeonroost Branch; Valley Fill No. 2B in the 3rd unnamed right tributary of Pigeonroost Branch, 1st unnamed left tributary of 3rd unnamed right tributary of Pigeonroost Branch, 1st unnamed right tributary of 3rd unnamed right tributary of Pigeonroost Branch; Valley Fill No. 3 in the 1st unnamed right tributary of Pigeonroost Branch; and Valley Fill No. 4 in Oldhouse Branch, 1st unnamed left tributary of Oldhouse Branch, 2nd unnamed left tributary of Oldhouse Branch, 1st unnamed left fork of Oldhouse Branch, 2nd unnamed right tributary of Oldhouse Branch, and 1st unnamed right tributary of Oldhouse Branch; Pond No. 2, 2A, 2B, and 2C in Pigeonroost Branch, Pond No. 3 in the 1st unnamed right tributary of Pigeonroost Branch; and Pond No. 4 in Oldhouse Branch; erosion protection zone in Pigeonroost Branch, 2nd unnamed left tributary of Pigeonroost Branch, and 3rd unnamed right tributary of Pigeonroost Branch; office and maintenance area in Pigeonroost Branch; and mine through areas in Pigeonroost Branch, 2nd unnamed left tributary of Pigeonroost Branch, 1st unnamed left tributary of 4th unnamed right tributary of Pigeonroost Branch, 1st unnamed left tributary of 4th unnamed right tributary of Pigeonroost Branch, 3rd unnamed right tributary of Pigeonroost Branch, 1st unnamed left tributary of 3rd right unnamed tributary of Pigeonroost Branch, 1st unnamed right tributary of 3rd right unnamed tributary of Pigeonroost Branch, Oldhouse Branch, and 1st unnamed left fork of Oldhouse Branch, 1st unnamed right fork of Oldhouse Branch.

- The Corp 404 Individual Permit Application for the Spruce No. 1 Mine (IBR No. 2).
- Verbal communications with USACOE personnel.

Based upon review of the information and findings set forth above, State 401 Certification, as required by the Clean Water Act, is granted subject to compliance with the conditions contained in the Mitigation / Compensation Agreement signed December 12, 2005.

This certification may be appealed under Title 47, Series 5A, Section 8 of the Code of State Regulations, State Certification of Activities Requiring Federal License and Permits. The appeal must be submitted within fifteen (15) days of receipt by the COE and must be made in writing and set forth the action complained of and the grounds upon which the appeal is based. It should be directed to: Director, Division of Mining and Reclamation, 601 57th Street SE, Charleston, West Virginia 25304-2345, Attention: Randy C. Huffman.

Sincerely,



Randy C. Huffman
Director

RCH/wcb

cc: Hobet Mining, Inc.
7 Players Club Drive
Charleston, WV 25311
Attn: John McDaniel
U.S. Environmental Protection Agency
U.S. Fish and Wildlife Service
WVDNR Wildlife, Elkins
Bob Fala, DEP HQ
William Borth, DEP HQ
Kathy Lucas, DEP HQ
Logan DEP Regional Office

**STATE 401 CERTIFICATION
RATIONALE PAGE**

Permit: 401 Certification

Company Name: Hobet Mining, Inc.

Facility Name: Spruce No. 1 Mine

County: Logan

SMA/Permit No.: S-5013-97, IBR No. 2

NPDES Permit No.: WV1017021 / Mod No.2

1. New or expanded discharge? ☒ Yes ☐ No - go to item #4
2. Facility eligible for General Permit? ☒ No ☐ Yes - go to item #4
3. Basis for certification:

A. Determine tier and uses of each receiving stream.

STREAM	USES	TIER
1 st unnamed right tributary of Right Fork of Seng Camp Creek	A,B,C,D	II
1 st unnamed right tributary of 1 st right unnamed tributary of Right Fork of Seng Camp Creek	A,B,C,D	II
2 nd unnamed right tributary of Right Fork of Seng Camp Creek	A,B,C,D	II
Pigeonroost Branch	A,B,C,D	II
1 st unnamed left tributary of Pigeonroost Branch	A,B,C,D	II
2 nd unnamed left tributary of Pigeonroost Branch	A,B,C,D	II
3 rd unnamed left tributary of Pigeonroost Branch	A,B,C,D	II
4 th unnamed left tributary of Pigeonroost Branch	A,B,C,D	II
4 th unnamed right tributary of Pigeonroost Branch	A,B,C,D	II
1 st unnamed left tributary of 4 th unnamed right tributary of Pigeonroost Branch	A,B,C,D	II
3 rd unnamed right tributary of Pigeonroost Branch	A,B,C,D	II
1 st unnamed left tributary of 3 rd right unnamed tributary of Pigeonroost Branch	A,B,C,D	II
1 st unnamed right tributary of 3 rd right unnamed tributary of Pigeonroost Branch	A,B,C,D	II
2 nd unnamed right tributary of Pigeonroost Branch	A,B,C,D	II
1 st unnamed right tributary of Pigeonroost Branch	A,B,C,D	II
Oldhouse Branch	A,B,C,D	II
1 st unnamed left tributary of Oldhouse Branch	A,B,C,D	II
2 nd unnamed left tributary of Oldhouse Branch	A,B,C,D	II
1 st unnamed left fork of Oldhouse Branch	A,B,C,D	II
1 st unnamed right fork of Oldhouse Branch	A,B,C,D	II
2 nd unnamed right tributary of Oldhouse Branch	A,B,C,D	II
1 st unnamed right tributary of Oldhouse Branch	A,B,C,D	II

Anti-degradation Review: This State 401 Certification request is for an Individual U.S. Army Corps of Engineers 404 Permit involving placement of material in waters of the United States in conjunction with the activity associated with the Spruce No. 1 Mine. The proposed project is located in Right Fork of Seng Camp Creek, unnamed tributaries of Pigeonroost Branch, Pigeonroost Branch, unnamed tributaries of Oldhouse Branch, and Oldhouse Branch of Spruce Fork of Coal River of the Kanawha River approximately 2 miles northeast of Blair in Logan County in West Virginia.

The original design proposed for the operation called for the construction of five valley fills, five sediment ponds, and mine through areas – all impacting an approximate 57,755 linear feet (12.84 acres) of waters of the U.S. and one 0.12 acre emergent wetlands with a total disturbance of 2,914 acres of land to recover 51.53 millions tons of coal reserves. The applicant has since revised the configuration of their proposed mine plan in accordance with the requirements of the WVDEP Final Approximate Original Contour (AOC) and thereby reduced proposed impacts to waters of the U.S. by 13,809 linear feet (3.89 acres), reduced surface disturbances by 636 acres, and reduced coal extraction by 10.62 millions tons. As a result of the reconfiguration for the revised permit, the project would have a lower proportion of permanent impacts to waters of the U. S. within the excess overburden storage areas as opposed to within the mineral removal areas. The applicant also specifically revised the permit configuration to avoid impacts to White Oak Branch, a presumed Tier 2.5 stream.

The current approved design will result in the permanent impact to 24,023 linear feet of intermittent streams and 7,655 linear feet of ephemeral streams and one 0.12 acre emergent wetland. As proposed in the current plan, the construction of sediment control structures and an erosion protection zone (EPZ) will result in the temporary impact of 825 linear feet of perennial streams, 5,642 linear feet of intermittent streams, and 30 linear feet of ephemeral streams. Lastly, the construction of the proposed office and maintenance area would result in the impact of 315 linear feet of the intermittent streams.

The use of smaller equipment as opposed to the dragline has effected a reduction in temporary land disturbance impacts.

A Buffer Zone Finding was prepared incorporating the 404(b)(1) analysis to evaluate less degrading alternatives and minimize impacts to the Waters of the United States and assure compliance with State Water Quality Standards.

A Mitigation and Compensation Agreement was signed on December 12, 2005 for the stream impact resulting from the mine through areas (other than within the area of Valley Fill Nos. 1A, 1B, 2A, 2B, 3, and 4) associated with the proposed Spruce No. 1 Mine. This agreement also addressed the stream impacts resulting from the construction of Valley Fill Nos. 1A, 1B, 2A, 2B, 3, and 4; Pond Nos. 2, 2A, 2B, 2C, 3, and 4; erosion protection zone; and office and maintenance area.

The "Demonstration of No Practical Alternatives" from the State 401 Certification application, evaluated several alternatives, including: "No Action Alternative; Alternative Not Requiring Construction of the Spruce No. 1 Mine; Alternatives for Construction and Operation of the Spruce No. 1 Mine including: Mine Layout and Sequencing Alternatives; Mining Operation

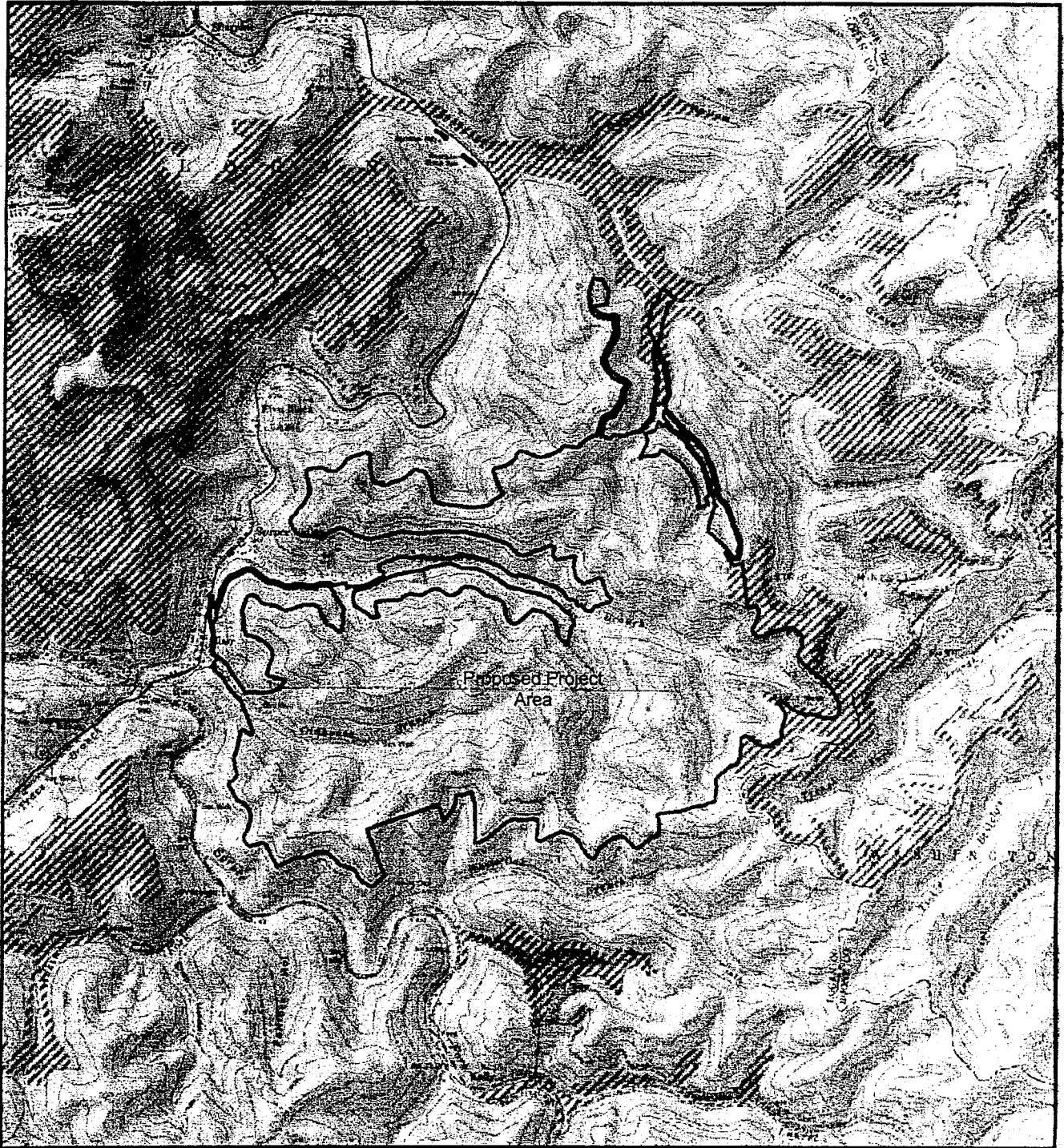
Alternatives; Off-Site Disposal Alternatives; Hauling Fill Off-Site Alternative; Fill Location Alternative; Valley Fill Locations Alternative; and the "Preferred Alternative".

The Cumulative Hydrologic Impact Assessment (CHIA) for S-5013-97, IBR No. 2 indicated that the cumulative and probable hydrological impacts from the Spruce No. 1 Mine would not cause hydrologic material damage as defined by the state water quality limits for warm water fisheries and that local use of surface and ground waters will be maintained and that Spruce No. 1 Mine would not adversely impact the hydrologic balance.

Information supplied by Hobet in the Community Impact Statement for the Spruce No. 1 Mine stated that an estimated 218 employees would be hired at the mine site during full operation, of which 95% will be residents of West Virginia. The anticipated life of the mine is 15 years. During full operation: the annual coal production is estimated at 2,800,000 tons, the mine payroll is estimated at \$11,850,000, the estimated annual property tax payments will be \$1,074,000 and the estimated annual severance tax payment will be \$5,479,546.


4. Special Conditions or monitoring requirements:


Special Conditions: In Addition to the signed Mitigation and Compensation Agreement dated December 12, 2005 between the State and Hobet Mining, Inc., the USACE will also impose special conditions and mitigation on all waters under their jurisdiction. This Mitigation Agreement will be solely between the Corp and Hobet Mining, Inc.



Source: Amherstdale and Clothier West Virginia 7.5 minute series

LEGEND

 Proposed Project Area

 Existing WVDEP Permits

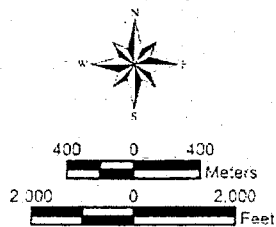
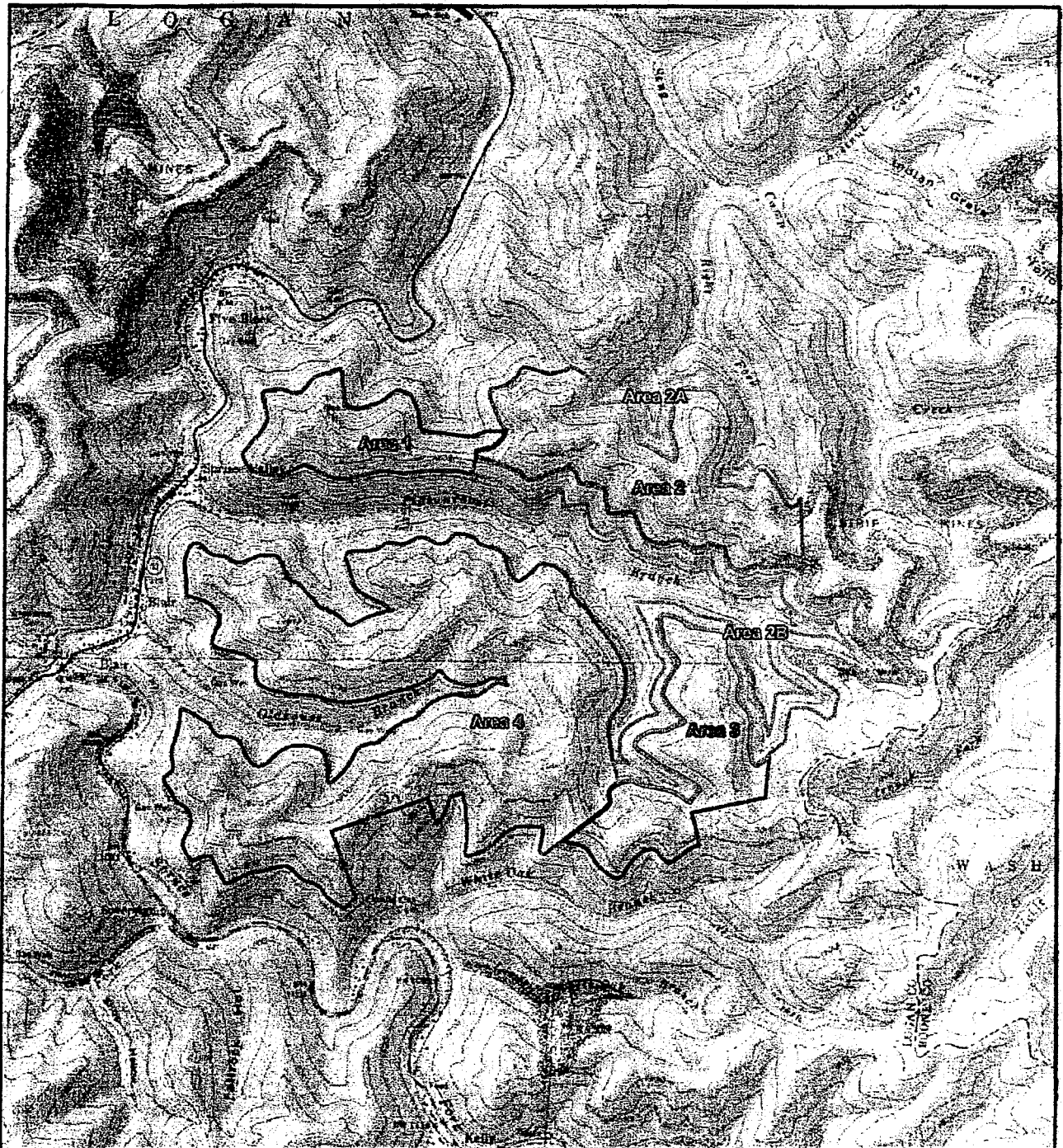


Exhibit 1 - 2

PROPOSED PROJECT AREA
Spruce No. 1 Mine DEIS







Source: Amherstdale and Clothier West Virginia 7.5 minute quadrangle series

MINE AREAS

- Area 1
- Area 2
- Area 2A
- Area 2B
- Area 3
- Area 4

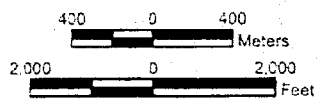
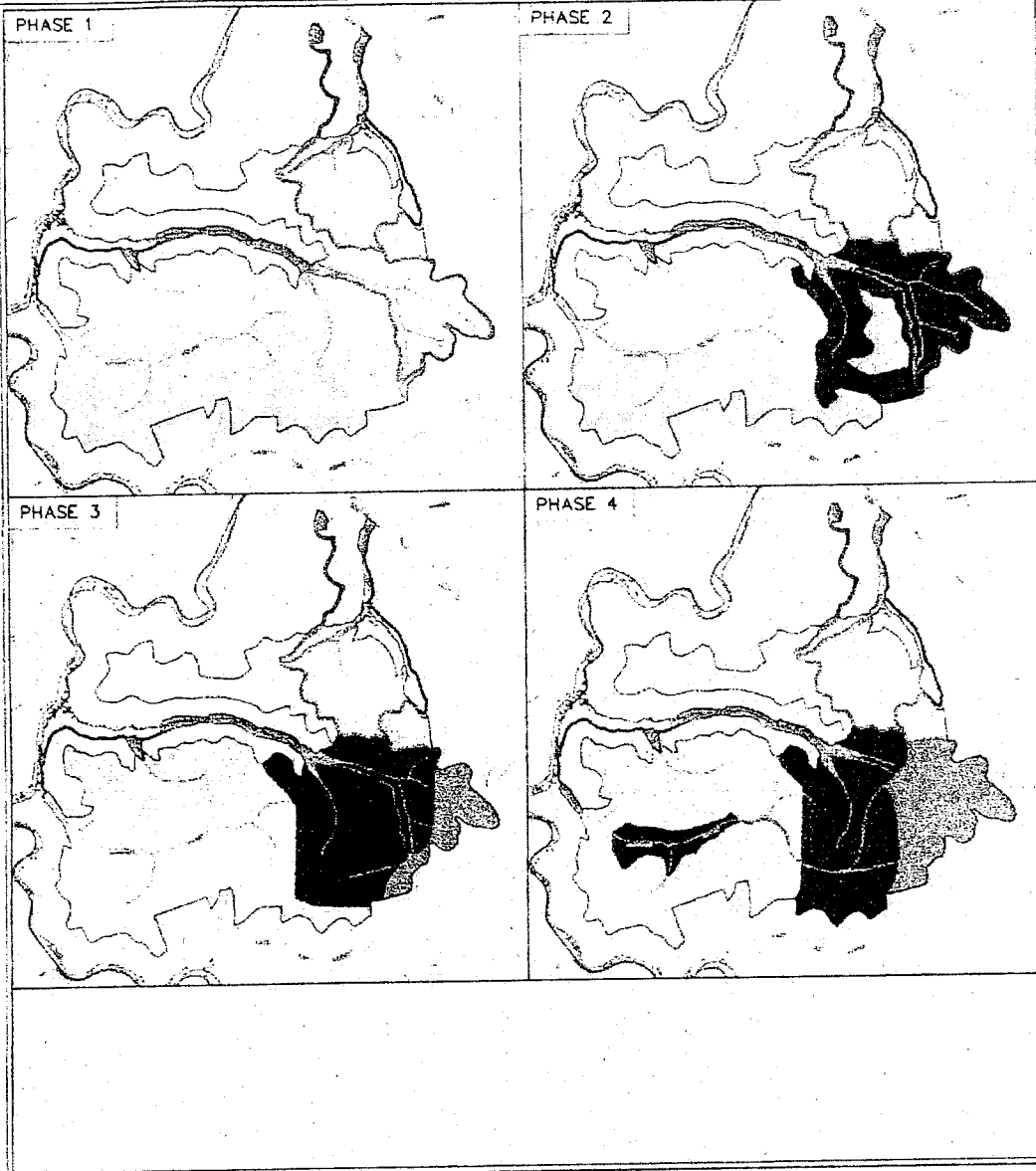


Exhibit 2 - 14

MINE AREAS
Spruce No. 1 Mine









- LEGEND**
-  DISTURBED AREA
 -  UNDISTURBED AREA
 -  ANCILLARY / EXEMPT AREA
 -  REGRADED AREA

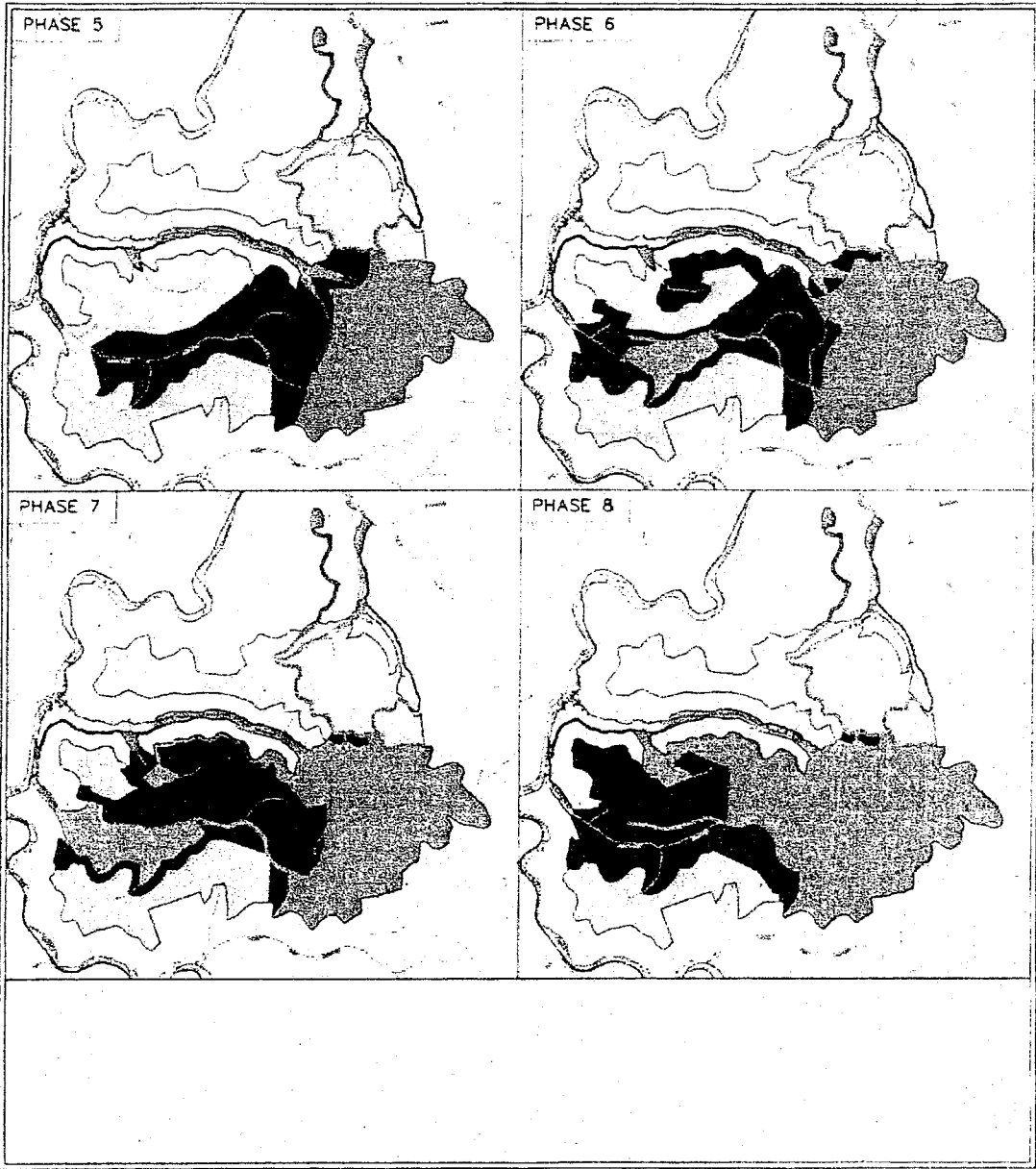


EXHIBIT 2 - 15





**MINING AND RECLAMATION PHASES
PHASE 1 THROUGH PHASE 4**

Spruce No. 1 Mine





LEGEND

-  DISTURBED AREA
-  UNDISTURBED AREA
-  ANCILLARY / EXEMPT AREA
-  REGRADED AREA

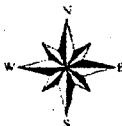
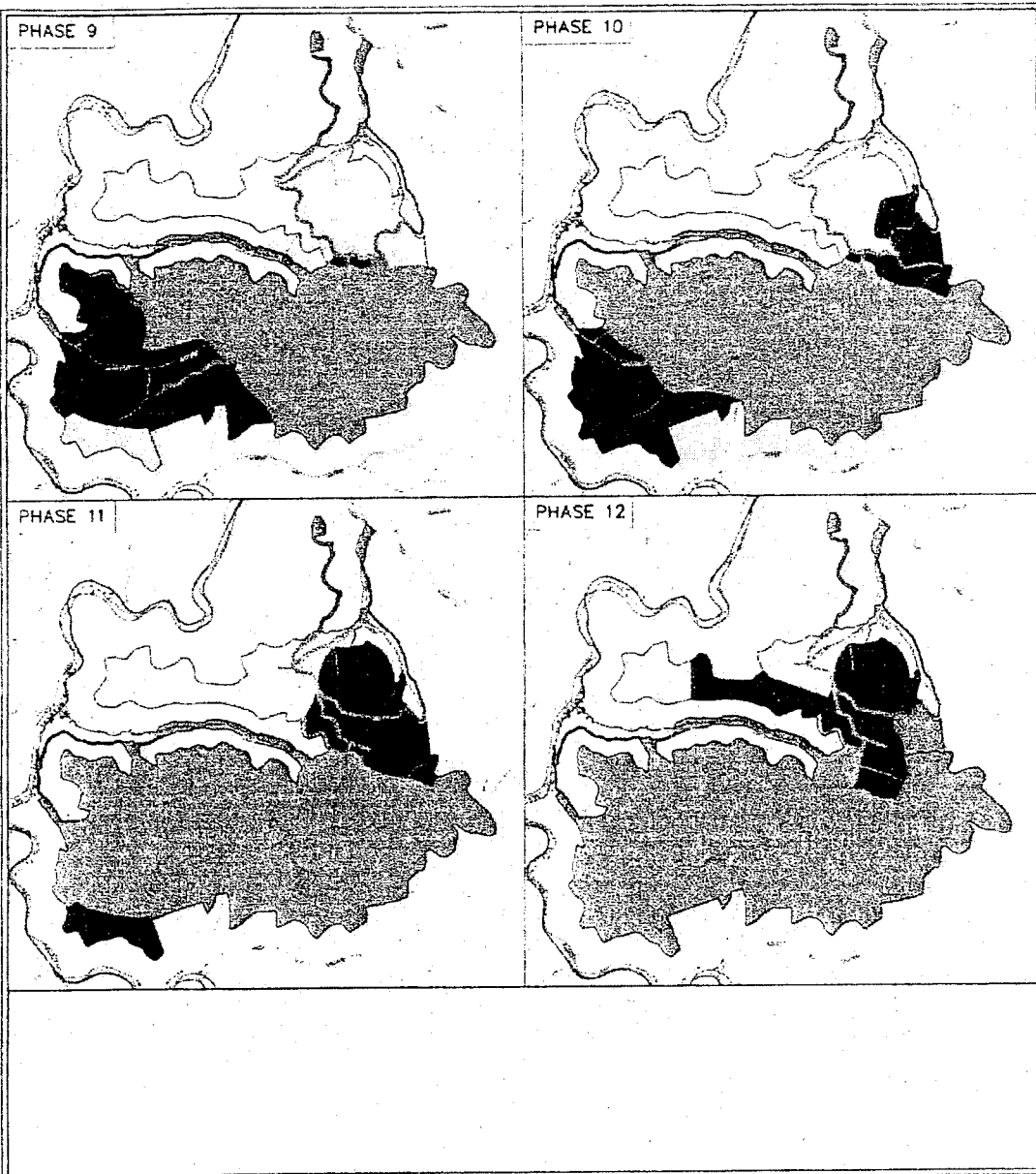


EXHIBIT 2 - 16

**MINING AND RECLAMATION PHASES
PHASE 5 THROUGH PHASE 8**

Spruce No. 1 Mine





LEGEND





-  DISTURBED AREA
-  UN-DISTURBED AREA
-  ANCILLARY / EXEMPT AREA
-  REGRADED AREA

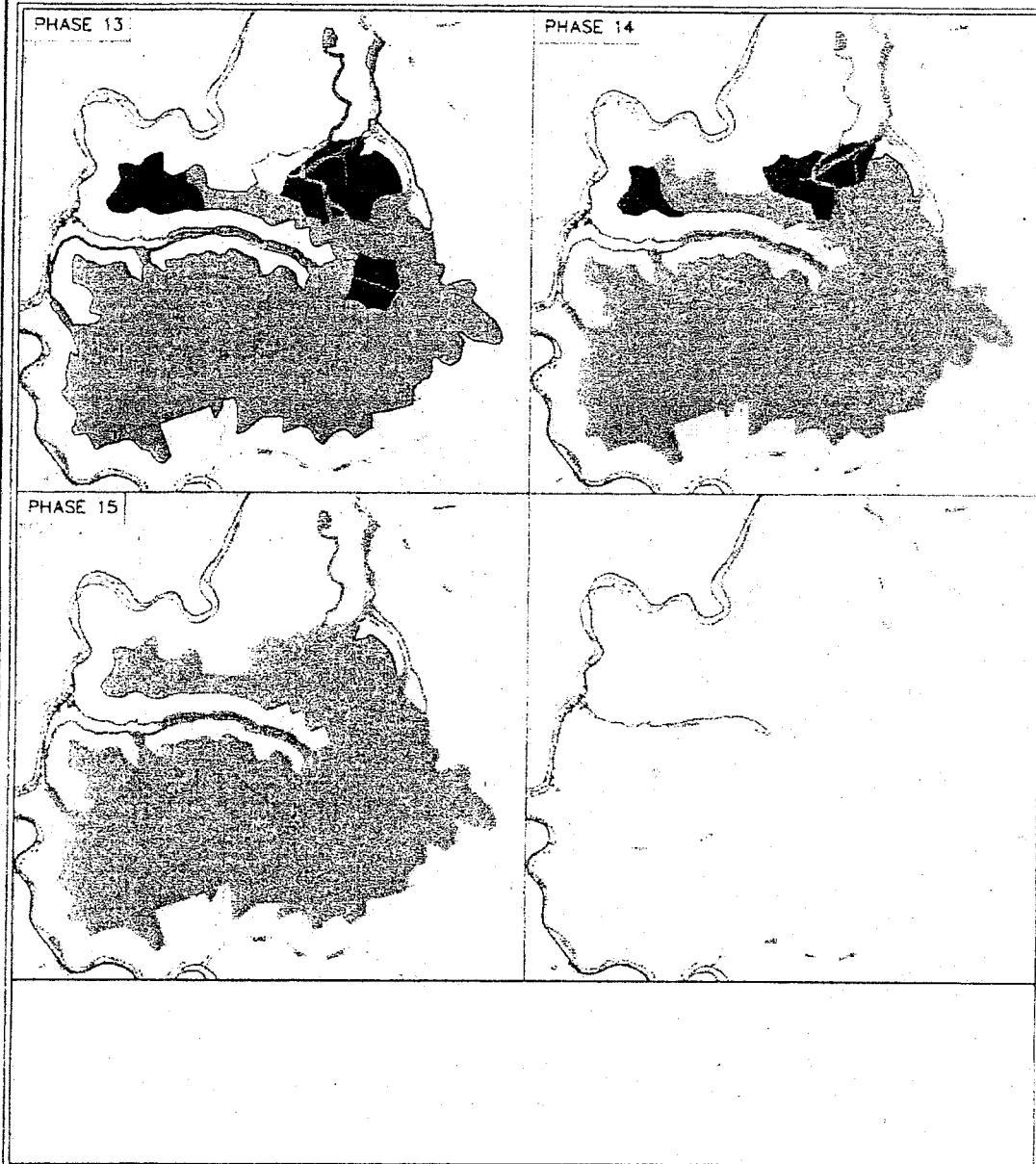


EXHIBIT 2 - 17

**MINING AND RECLAMATION PHASES
PHASE 9 THROUGH PHASE 12**

Spruce No. 1 Mine





LEGEND





	DISTURBED AREA
	UNDISTURBED AREA
	ANCILLARY / EXEMPT AREA
	REGRADED AREA

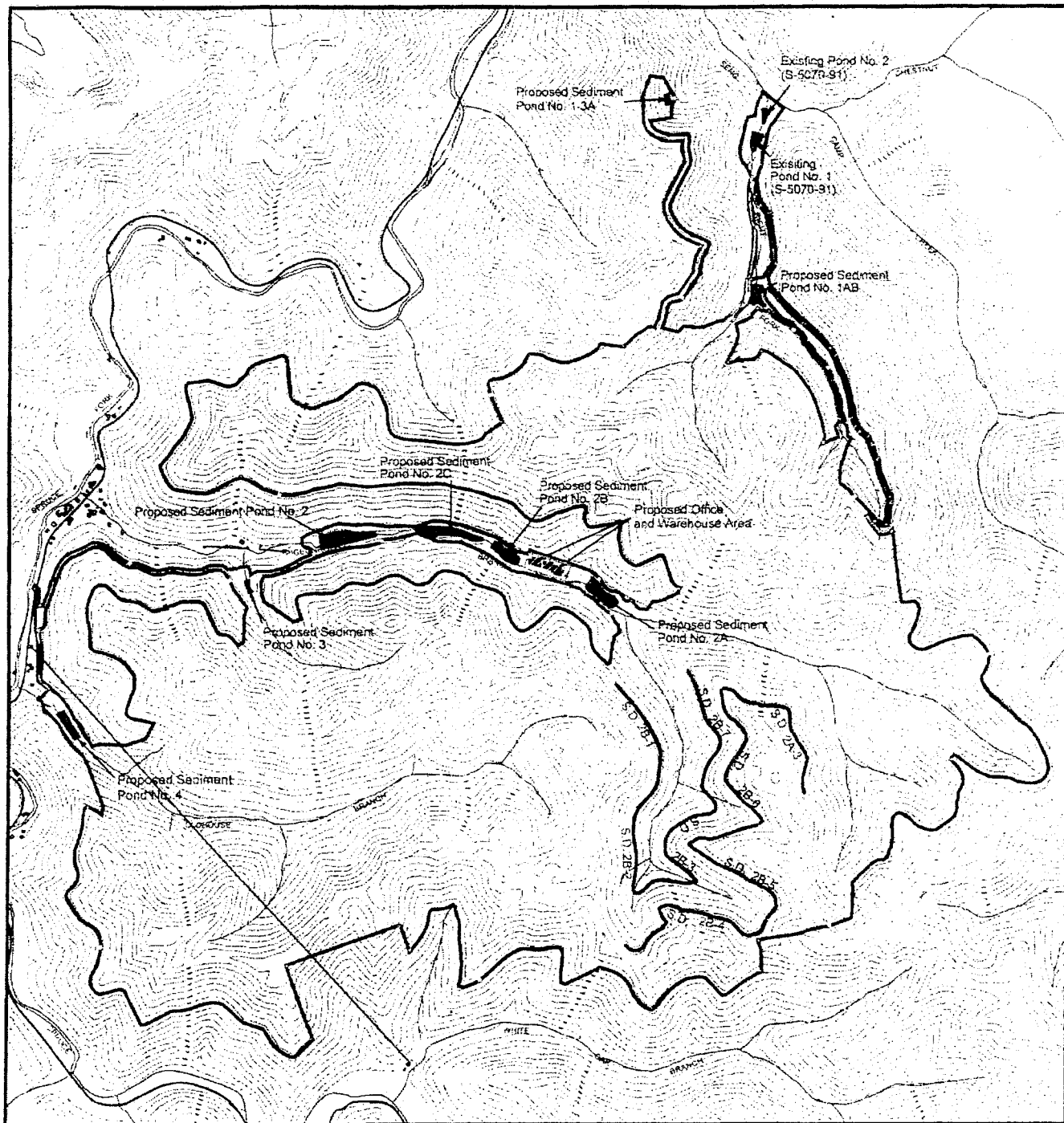


EXHIBIT 2 - 18





**MINING AND RECLAMATION PHASES
PHASE 13 THROUGH PHASE 15**

Spruce No. 1 Mine





LEGEND

-  Project Boundary
-  Drainage Control Structure (Ditch)
-  Drainage Control Structure (Pond)
-  Proposed Office and Warehouse Area

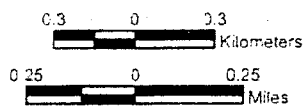
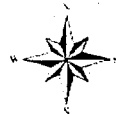
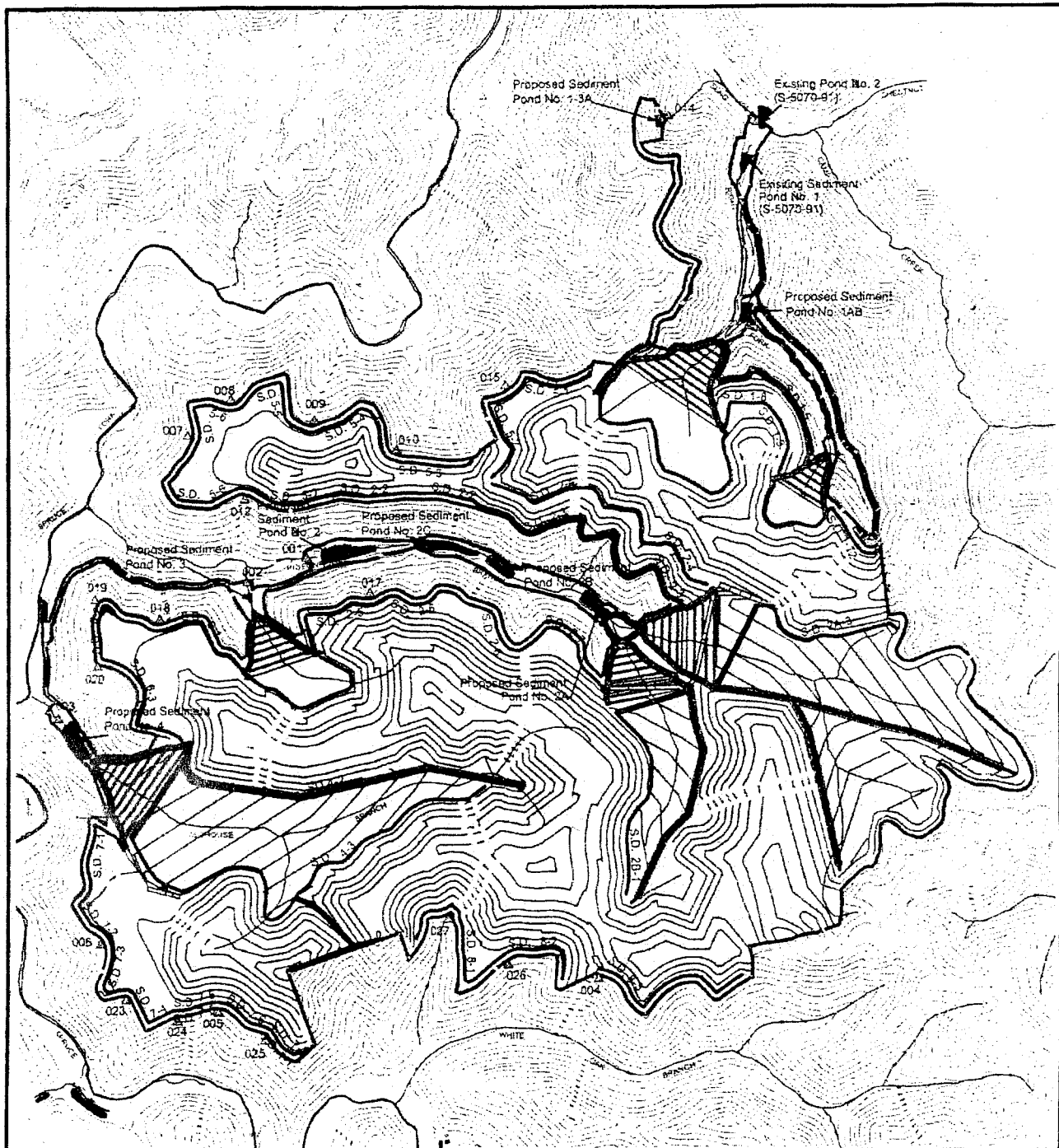


Exhibit 2 - 20





CONSTRUCTION PHASE DRAINAGE CONTROL STRUCTURES

Spruce No. 1 Mine





LEGEND

-  Project Boundary
-  Drainage Control Structure (Ditch)
-  Drainage Control Structure (Pond)
-  NPDES Outfall

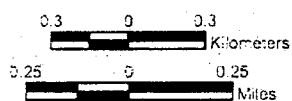
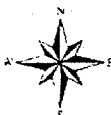


Exhibit 2 - 22

REGRADE DRAINAGE
STRUCTURE LOCATIONS
Spruce No. 1 Mine





**WEST VIRGINIA
DIVISION OF
CULTURE & HISTORY**

The Cultural Center
1900 Kanawha Blvd., E.
Charleston, WV
25305-0300

Phone 304.558.0220
Fax 304.558.2779
TDD 304.558.3562
www.wvculture.org

EEO/AA Employer

December 14, 2006

Ms. Teresa Spagna
U.S. Army Corps of Engineers
502 Eighth Street
Huntington, WV 25701

RE: Mingo-Logan Coal Company
Spruce No. 1 Mine (S-5013-97, IBR No. 2)
Compensatory Mitigation Plan
FR#: 97-595-LG-5

Dear Ms. Spagna:

We have reviewed the above referenced project to determine its effects to cultural resources. As required by Section 106 of the National Historic Preservation Act of 1966, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

It is our understanding that this project proposes both on- and off-site mitigation activities associated with the above referenced surface mine near Spruce Valley, Logan County, West Virginia.

On-Site Mitigation Activities:

According to the project application, the proposed on-site mitigation activities will be conducted within the area that was previously surveyed for cultural resources in 1996. The resulting technical report, *Phase I Archaeological Survey for the Proposed Pigeonroost Surface Mine Near Blair, Logan County, West Virginia*, identified 15 previously unrecorded archaeological sites, three cemeteries and one architectural resource within the project area. While no cultural resources considered to be eligible for the National Register of Historic Places were present within the project area, archaeological site 46LG123, a petroglyph, and the cemeteries were to be avoided by the mining activities. It is our understanding that the mine was redesigned to avoid these resources. We ask that they continue to be avoided during mitigation of wetland resources.

Off-Site Mitigation Activities:

It is our understanding that off-site mitigation activities are planned along Rockhouse Creek, near Mifflin, and Along Spruce Fork between the town of Five Block and Seng Camp/Daniel Hollow. Our records indicate that the landforms within Rockhouse Creek have been previously mined and reclaimed, thus it is unlikely that intact archaeological deposits are present. No further work is requested for proposed activities along Rockhouse Creek.

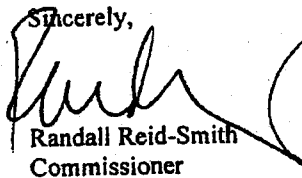
The project application also indicates that off-site mitigation activities are planned along the floodplain of Spruce Fork. Our records indicate that four known archaeological sites, 46LG198, 46LG23, 46LG114 and 46LG130, are located on similar terrain just outside of the project boundaries. Sites 46LG198, 46LG23 and 46LG114 are prehistoric in nature,

Ms. Teresa Spagna
FR# 97-595-LG-5
December 14, 2006
Page 2

while 46LG130 is a historic period domestic site. Site 46Lg198 was determined to be eligible for inclusion in the National Register of Historic Places, and data recovery excavations were recently completed. Based upon this information, it is our opinion that the proposed mitigation area on Spruce Fork is highly likely to contain intact archaeological resources. We cannot comment on this project's effects to cultural resources within the proposed project area located along Spruce Fork until the results of a Phase I archaeological survey are submitted for our review. Please be aware that the survey may need to incorporate methods for investigating deeply buried soils.

We appreciate the opportunity to be of service. If you have any questions regarding our comments or the Section 106 process, please do not hesitate to contact Jeff Davis, Survey Archaeologist, or Lora A. Lamarre, Senior Archaeologist at (304) 558-0240.

Sincerely,



Randall Reid-Smith
Commissioner

RRS/LAL/JBD



west virginia department of environmental protection

Division of Mining and Reclamation
601 57th Street, SE
Charleston, WV 25304-2345
Phone: 304-926-0490
Fax: 304-926-0456

Joe Manchin III, Governor
Stephanie R. Timmermeyer, Cabinet Secretary
www.wvdep.org

August 7, 2007

MINGO LOGAN COAL COMPANY
1000 MINGO LOGAN AVE
WHARNCLIFFE, WV 25651

Gentlemen:

Enclosed is your WVNPDES Permit No. WV1017021 for your Surface Mine located near Blair - Logan County in Logan County, West Virginia.

We suggest that this permit or a copy of it be kept in the office nearest the discharge point.

If you have any questions, please contact me at (304) 792-7250 or by mail at:

Department of Environmental Protection
1101 George Kostas Drive
Logan, WV 25601
Attention: Tim Justice

Sincerely,



Tim Justice
Permit Writer

cc: Environmental Protection Agency
Environmental Inspector
DEP Regional Office File
Headquarters NPDES File ✓



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street, SE
Charleston, WV 25304-2345
Phone: 304-926-0495
Fax: 304-926-0457

Joe Manchin III, Governor
Stephanie R. Timmermeyer, Cabinet Secretary
www.wvdep.org

**WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WATER POLLUTION CONTROL PERMIT**

NPDES PERMIT NO.: WV1017021

ISSUE DATE: August 7, 2007

ASSOCIATED PERMITS: S501397

EXPIRE DATE: January 11, 2012

SUBJECT: Surface Mine

SUPERSEDES/ WV1017021 / 5/12/2004
EFFECTIVE DATE:

HEALTH CERTIFICATE:

LOCATION:	Blair - Logan County	Logan	Group B	Coal River
	(City)	(County)	(Hydrologic)	(Drainage Basin)

TO WHOM IT MAY CONCERN:

This is to certify that: MINGO LOGAN COAL COMPANY
1000 MINGO LOGAN AVE
WHARNCLIFFE, WV 25651

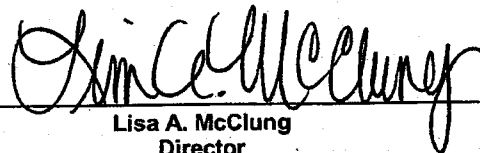
is hereby granted a West Virginia NPDES Water Pollution Control Permit to:

Operate and maintain the Spruce No. 1 Surface Mine in the No. 6 Block, No. 5 Block, Upper, Middle and Lower Stockton, Upper, Middle and Lower Coalburg, Buffalo A, Buffalo B, Winifrede, Chilton seams of coal and all associated splits and to monitor outlet 028 at (adjacent NPDES Permit WV1013289 outlet 007) and to discharge treated and storm water into unnamed tributaries of/and into the Right Fork of Seng Camp Branch, Pigeonroost Branch, White Oak Branch, Oldhouse Branch of/and into Spruce Fork, all of the Little Coal River of the Coal River.

This permit is subject to the following terms and conditions:

- The effluent limitations, monitoring requirements and other conditions set forth in Section A, B, C and D.
- See Section D Item 5 for Special Conditions.

By :


Lisa A. McClung
Director

Effective

To

INTERIM

Permit No. WV1017021

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. **EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:** Outlets should be limited and monitored by the permittee as specified below:

Outlet Number	Effluent Type	Latitude Longitude	Elevation In Feet	EFFLUENT CHARACTERISTICS	Begins	Ends	Quan/ Conc	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
								Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge from Outlet Number(s) listed below:
2. **EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:** Outlets should be limited and monitored by the permittee as specified below:

[illegible]

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Outlet Number	Effluent Type	Latitude Longitude	Elevation In Feet	EFFLUENT CHARACTERISTICS	Begins	Ends	Quan/ Conc	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS		
								Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type
003	L	37°52'54" 81°49'35"	1000	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				pH	08/07/2007		Conc	6.00	Report Only	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	N/A	N/A	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	4.70	8.20	UG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	0.26	0.50	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	3.47	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											
004	L	37°51'57" 81°41'52"	1750	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				pH	08/07/2007		Conc	6.00	Report Only	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	N/A	N/A	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	4.70	8.20	UG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	3.47	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. **EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:** Outlets should be limited and monitored by the permittee as specified below:

[illegible]

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. EFFLUENT LIMITATIONS AND MONITORING FREQUENCY: Outlets should be limited and monitored by the permittee as specified below:

[illegible]

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

- 1. The permittee is authorized to discharge from Outlet Number(s) listed below:**

- 2. EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:** Outlets should be limited and monitored by the permittee as specified below:

[illegible]

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[illegible]

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[illegible]

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[illegible]

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2. EFFLUENT LIMITATIONS AND MONITORING FREQUENCY: Outlets should be limited and monitored by the permittee as specified below:

[illegible]

2. **EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:** Outlets should be limited and monitored by the permittee as specified below:

[illegible]

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

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[illegible]

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. EFFLUENT LIMITATIONS AND MONITORING FREQUENCY: Outlets should be limited and monitored by the permittee as specified below:

[illegible]

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge from Outlet Number(s) listed below:
2. **EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:** Outlets should be limited and monitored by the permittee as specified below:

[illegible]

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

* Instantaneous maximum limitation not to be exceeded at any time.

3. COMPLIANCE POINT: Samples taken for compliance with the above monitoring requirements shall be taken at the following locations: Outlet sites
4. ALTERNATE EFFLUENT LIMITATIONS: If alternate effluent limits are chosen, the following monitoring scheme applies:
 - (a) Table I Alternate Storm Limitations applies to any discharge or increase in the volume of a discharge caused by precipitation within any 24-hour period.
 - (b) Analyze the required parameters, which are determined by effluent type (listed in A.1.) and rainfall event, listed in Table I Alternate Storm Limitations.
 - (c) The permittee shall have the burden of proof that the discharge or increase in discharge was caused by the applicable rainfall event. This shall be verified by the use of a rainfall gauge located within three miles of the discharge point and last emptied no more than twenty-four hours prior to the time the sample was taken. Automated rain gauges may also be utilized. The sampling date and amount of rainfall measured by the gauge shall be reported on the Discharge Monitoring Report(DMR).
5. The rainfall gauge shall be located within three miles of the discharge point and last emptied not more than 24 hours prior to the time the sample was taken. Automated rain gauges may also be utilized. The sampling date and amount of rainfall measured for the 24-hour period of the sample being collected shall be reported on the Discharge Monitoring Report(DMR) for each DMR reported.
6. SUBMISSION OF DISCHARGE MONITORING REPORTS (DMRs):
 - (a) Permittee shall submit each quarter, according to the enclosed format, a Discharge Monitoring Report (DMR) indicating the values of the constituents listed in Part A, to be in the discharge measured at the specific compliance points. All analyses must be determined by methods required in 40 CFR Part 136.
 - (b) The required quarterly reports shall be postmarked no later than twenty (20) days following the end of the reporting period and shall be sent to:
**West Virginia Department of Environmental Protection
Division of Mining & Reclamation / HPU / NPDES Section
601 57th Street SE
Charleston, West Virginia 25304**
 - (c) Enter reported average and maximum values under Quantity and Concentration in the units specified for each parameter, as appropriate.
 - (d) Specify the number of analyzed samples that exceed the allowable permit conditions in the columns labeled N.E. (i.e. number exceeding).
 - (e) Specify frequency of analysis of each parameter as number of analyses/specified period (e.g. 3/month is equivalent to 3 analyses performed every calendar month). If continuous enter Cont. The frequency listed on format is the minimum required.
 - (f) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic means unless otherwise specified in the permit.
7. Any "not detected (ND)" results by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and must be reported as less than the MDL used. The permittee

may not report the result as zero, "ND", or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL).

When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the results as less than the average calculation.

8. In incidences where a specific test method is not defined, the permittee shall utilize an EPA approved method with a method detection limit (MDL) sensitive enough to confirm compliance with the permit effluent limit for that parameter. If a MDL is not sensitive enough to confirm compliance, the most sensitive approved method must be used. If a more sensitive EPA approved method becomes available, that method shall be used. Should the current and/or new method not be sensitive enough to confirm compliance with the permitted effluent limit, analytical results reported as "not detected" at the MDL of

the

most sensitive method available will be deemed compliant for purposes of permit compliance. Results shall be reported on the Discharge Monitoring Reports as a numeric value less than the MDL.

TABLE 1
ALTERNATE STORM LIMITATIONS

EFFLUENT TYPES	DRY WEATHER	DCP*	1 YEAR - 24 HOUR	2 YEAR - 24 HOUR	10 YEAR - 24 HOUR
<u>ACID OR FERRUGINOUS CATEGORIES</u>					
a. Discharges from underground workings of underground mines not commingled	TSS pH Iron Flow Manganese Aluminum	(NO ALTERNATE LIMITATIONS)			
b. Discharges from underground workings of underground mines commingled	TSS pH Iron Flow Manganese Aluminum				Flow pH Aluminum
c. Controlled surface mine drainage (except steep slope and mountaintop removal)	TSS pH Iron Flow Manganese Aluminum				Flow pH Aluminum
d. Non-controlled surface mine drainage (except steep slope and mountaintop removal)	TSS Iron Flow pH Manganese Aluminum	SS** pH Iron Flow Manganese Aluminum	SS** pH Flow Aluminum		Flow pH Aluminum
e. Discharges from coal refuse disposal areas	TSS pH Iron Flow Manganese Aluminum	Flow SS** pH Aluminum			Flow pH Aluminum
f. Discharges from steep slope and mountaintop removal areas	TSS Iron Flow pH Manganese Aluminum	Flow SS** pH Aluminum			Flow pH Aluminum
g. Discharges from preparation plants and preparation plant associated areas (excluding coal refuse piles)	TSS Iron Flow pH Manganese Aluminum	Flow SS** pH Aluminum			Flow pH Aluminum
h. Discharges from reclamation areas	Flow SS** pH Aluminum				Flow pH Aluminum
<u>ALKALINE CATEGORY</u>					
i. Discharges from underground workings of underground mines not commingled	TSS pH Iron Flow Aluminum Mn	(NO ALTERNATE LIMITATIONS)			
j. Alkaline Mine Discharges	TSS Iron Flow pH Mn Aluminum	Flow SS** pH Aluminum			Flow pH Aluminum
k. Reclamation areas	Flow SS** pH				Flow pH
<u>WATER QUALITY BASED LIMITS</u>					
l. Water quality based effluent limits	TSS Iron Flow pH Mn Al	SS** pH Iron Flow Manganese Aluminum			
m. Bathhouse & Sewage	UBOD BOD5 TKN DO	(NO ALTERNATE LIMITATIONS)			

DCP* -- Discharge or increase in the volume of a discharge caused by precipitation within any 24 hour period

SS** -- Settleable Solids Mn -- Manganese Al -- Aluminum

County: Logan

1-Year 02.40

2-Year 02.74

10-Year 03.98

B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the following interim requirements with the discharge limitations specified in this permit in accordance with the following schedule:

Interim Requirement

Completion Date

Effective date of this permit

2. Reports of compliance or non-compliance with, and progress reports on the interim and final requirements contained in the above compliance schedule shall be submitted no later than fourteen (14) days following each schedule date.

N/A

C. TERMS AND CONDITIONS INCORPORATED BY REFERENCE TO THE WV NPDES REGULATIONS FOR COAL MINING AND FACILITIES, TITLE 47, SERIES 30.

- 5.1 Duty to Comply, Penalties
- 5.2 Duty to Reapply
- 5.3 Duty to Halt or Reduce Activity
- 5.4 Duty to Mitigate
- 5.5 Proper Operation and Maintenance
- 5.6 Permit Actions
- 5.7 Transfer
- 5.8 Property Rights
- 5.9 Duty to Provide Information
- 5.10 Inspection and Entry
- 5.11 Monitoring and Records
- 5.12 Signatory Requirements
- 5.13 Reporting Requirements
- 5.14 Bypass
- 5.15 Upset
- 5.16 Reopener Clause
- 5.17 Removed Substances
- 5.18 New Sources (if applicable)
- 5.19 Definitions

D. OTHER REQUIREMENTS**1. REPORTING SPILLS AND ACCIDENTAL DISCHARGES**

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to Series 3, Section 1 of the Environmental Quality Boards regulations.

Attached is a copy of the West Virginia Spill Alert System for use in complying with Series 3, Section 1 of the regulations as they pertain to the reporting of spills and accidental discharges.

2. HAULAGEWAYS AND ACCESS ROADS

Haulageways and access roads shall be constructed and maintained in accordance with best management practices including, but not limited to, the performance standards contained in Title 38, Series 2, Section 4 of the West Virginia Surface Mining Reclamation Regulations.

3. RECEIVING STREAMS

The receiving streams shall be monitored by grab samples as required at the stream sampling points listed below, and the samples shall be analyzed for the parameters listed below. The flow of the stream shall be estimated at the time of monitoring. Monitoring shall be done approximately at the same time as the discharge points are monitored as required under Section A of this permit. A quarterly report of the stream monitoring and flow shall be sent to the NPDES section in Charleston, on the enclosed forms along with the reports required under Section A. Based upon the stream monitoring flow data, water quality standards or other information, the Department may at any time modify the effluent limits in Section A of this permit for any of the discharge points if necessary, to insure compliance with water quality standards.

<u>STREAM STATION</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>ELEV.</u>	<u>PARAMETERS</u>
DOB	37°52'46'	81°49'40'	980	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)
DPB	37°53'03'	81°49'27'	981	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)
DSCB	37°54'37'	81°48'21'	878	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)
DSF	37°54'41'	81°48'24'	880	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)
DWOB	37°51'37'	81°48'30'	1078	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)
USCB	37°54'06'	81°47'10'	1030	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)

<u>STREAM STATION</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>ELEV.</u>	<u>PARAMETERS</u>
USF	37°51'15'	81°48'30'	1081	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)
UWOB	37°51'36'	81°47'12'	1370	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)

4. SURFACE MINES

If the coal mining operation has been granted Phase II revegetation release and all discharge points have been eliminated during the period this permit is in effect, the discharge limitations and monitoring requirements in Section A and Section D.3 stream monitoring shall not apply. The coal mining operation shall be maintained in accordance with best management practices including, but not limited to the applicable performance standards contained in Title 38, Series 2, West Virginia Mining Reclamation Regulation until the associated performance bond has been final released.

5. DISSOLVED ALUMINUM WATER QUALITY STANDARD

EPA has approved a revision to the aquatic life chronic water quality standard for warm water streams in West Virginia. The revision temporarily modifies the chronic aluminum criterion from 87 ug/l to 750 ug/l for all waters except trout waters, and applies until July 4, 2007. If the temporary revision is not extended past July 4, 2007, or is not approved as a permanent revision, your permit may be reopened for reevaluation of the effluent limitations for aluminum.

The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit; the plans and specifications submitted with Permit Application No. N/A, completed the N/A day of N/A N/A; the information submitted with the application for Reissuance No. WV1017021 completed the 30 day of May 2007, with the plan of maintenance and method of operation thereof submitted with such application(s) with the WVNPDES Regulations, Series 30 and with any applicable rules and regulations promulgated by the State Environmental Quality Board.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. N/A, completed the N/A day of N/A, N/A, with the information submitted with Application No. for Reissuance No. WV1017021 completed the 30 day of May, 2007 and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and for the invocation of all the enforcement procedures set forth in Article 11, Chapter 22 of the code of West Virginia.

This permit is issued in accordance with the provisions of Article 11, Chapter 22 of the Code of West Virginia and is transferable under the terms of WVNPDES Regulations, Series 30, Subsection 3.5.c.

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 001

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	Rpt Only	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			N/A	N/A	0.50				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	4.70	8.20				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.25	0.43				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	3.47				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021OUTLET NO.: 001

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the space provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 002

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	Rpt Only	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			N/A	N/A	0.50				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	4.70	8.20				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.25	0.43				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	3.47				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 002

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Effective 08/07/2007 To													
Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
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	Permit Limits												
	Reported												
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	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 003

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.									
Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	Rpt Only	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			N/A	N/A	0.50				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recoverable	Permit Limits	N/A	N/A	N/A			Rpt Only	4.70	8.20				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.26	0.50				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	3.47				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY, SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 003

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

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Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021OUTLET NO.: 004

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	Rpt Only	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			N/A	N/A	0.50				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	4.70	8.20				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	3.47				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 004

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
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	Reported												
	Permit Limits												

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 005

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 005

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

DISCHARGE MONITORING REPORT

COMMERCIAL LABORATORY NAME: _____

COMMERCIAL LABORATORY ADDRESS:

1000

INDIVIDUAL PERFORMING ANALYSIS:

[illegible]

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

Date Completed
Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 006

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 007

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 007

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 008

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY, SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 008

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021OUTLET NO.: 009

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recoverable	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 009

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 010

WASTeload FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 010

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY, SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021OUTLET NO.: 012

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.25	0.43				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY, SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 012

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY, SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 014

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 014

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 015

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 015

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 017

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To _____

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 017

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021OUTLET NO.: 018

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 018

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTeload FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 019

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 019

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 020

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.26	0.45				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY, SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 020

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 021

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 021

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY, SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 022

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058 Flow	Reported				GPM							Semi-monthly	Estimated
	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400 pH	Reported									Std Units		Semi-monthly	Grab
	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530 Total Suspended Solids	Reported									MG/L		Semi-monthly	Grab
	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545 Settleable Solids	Reported									ML/L*		See Section A of Permit	Grab
	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981 Selenium, Total Recover	Reported									MG/L		Semi-monthly	Grab
	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045 Iron, Total (As Fe)	Reported									MG/L		Semi-monthly	Grab
	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055 Manganese, Total	Reported									MG/L		Semi-monthly	Grab
	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105 Aluminum, Total (as Al)	Reported									MG/L		Semi-monthly	Grab
	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 022

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 023

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recoverable	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 023

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021OUTLET NO.: 024

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 024

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
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	Permit Limits												
	Reported												
	Permit Limits												

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 025

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 025

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTeload FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 026

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 026

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021OUTLET NO.: 027

WASTeload FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50				
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 027

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported												
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 028

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			6.00	Rpt Only	9.00				
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A of Permit	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			N/A	N/A	0.50				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75				

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY, SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: 028

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: DOB

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00061	Reported				CFS							Semi-monthly	Estimated
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: DPB

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00061	Reported				CFS							Semi-monthly	Estimated
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY, SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021OUTLET NO.: DSCB

WASTeload FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00061	Reported				CFS							Semi-monthly	Estimated
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

Signature/Title of Principal Officer

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO.1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: DSF

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00061	Reported				CFS							Semi-monthly	Estimated
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recoverable	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021OUTLET NO.: DWOB

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

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Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00061	Reported				CFS							Semi-monthly	Estimated
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits												

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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO. 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021 OUTLET NO.: USCB

INDIVIDUAL PERFORMING ANALYSIS: _____

WASTELOAD FOR THE MONTH OF: _____

ASSOCIATED PERMITS: S501397

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.

Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

Parameter		Quantity					Other Units					Measurement Frequency	Sample Type
		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00061	Reported				CFS							Semi-monthly	Estimated
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
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Date Completed

Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021OUTLET NO.: USF

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

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Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

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		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.		
00061	Reported				CFS							Semi-monthly	Estimated
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
pH	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
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Signature/Title of Principal Officer

STATE OF WEST VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY SPRUCE NO 1 MINE

COMMERCIAL LABORATORY NAME: _____

LOCATION OF FACILITY: Logan

COMMERCIAL LABORATORY ADDRESS: _____

PERMIT NO.: WV1017021OUTLET NO.: UWOB

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

ASSOCIATED PERMITS: S501397

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Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

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Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
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00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
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Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
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